

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

**SUBMIT IN TRIPLICATE\***  
 (Other instructions on  
 reverse side)

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil  
Well ☒Gas  
Well ☐Other ☐Single  
Zone ☒Multiple  
Zone ☐

2. Name of Operator

HARPER OIL COMPANY

3. Address of Operator

P. O. Box 5928 T.A., Denver, Colorado 80217

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface 1801' FNL &amp; 2344' FWL (NW/4)

At proposed prod. zone Same

14. Distance in miles and direction from nearest town or post office\*

18 miles southeast of Blanding, Utah

12. County or Parrish 13. State

San Juan Utah

15. Distance from proposed\*

location to nearest  
property or lease line, ft.  
(Also to nearest drlg. line, if any)

1801'

16. No. of acres in lease

640

17. No. of acres assigned

to this well  
Unknown18. Distance from proposed location\*  
to nearest well, drilling, completed,  
or applied for, on this lease, ft.

None

19. Proposed depth

5650'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

4934' G.L.

22. Approx. date work will start\*

March 1, 1985

23.

**PROPOSED CASING AND CEMENTING PROGRAM**

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#	1800'	900 sx.
7-7/8"	5-1/2"	14#	5650'	330 sx.

**List of Attachments:**

Surveyor's Plat  
 Designation of Operator  
 Drilling Prognosis  
 Cultural Resource Management Report

**RECEIVED**  
 JAN 24 1985

**APPROVED BY THE STATE**  
**OF UTAH DIVISION OF**  
**OIL, GAS, AND MINING**

DATE: 1/23/85

BY: John R. Buge

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

John Dolezal

Title Drilling Specialist

Date 1-14-85

(This space for Federal or State office use)

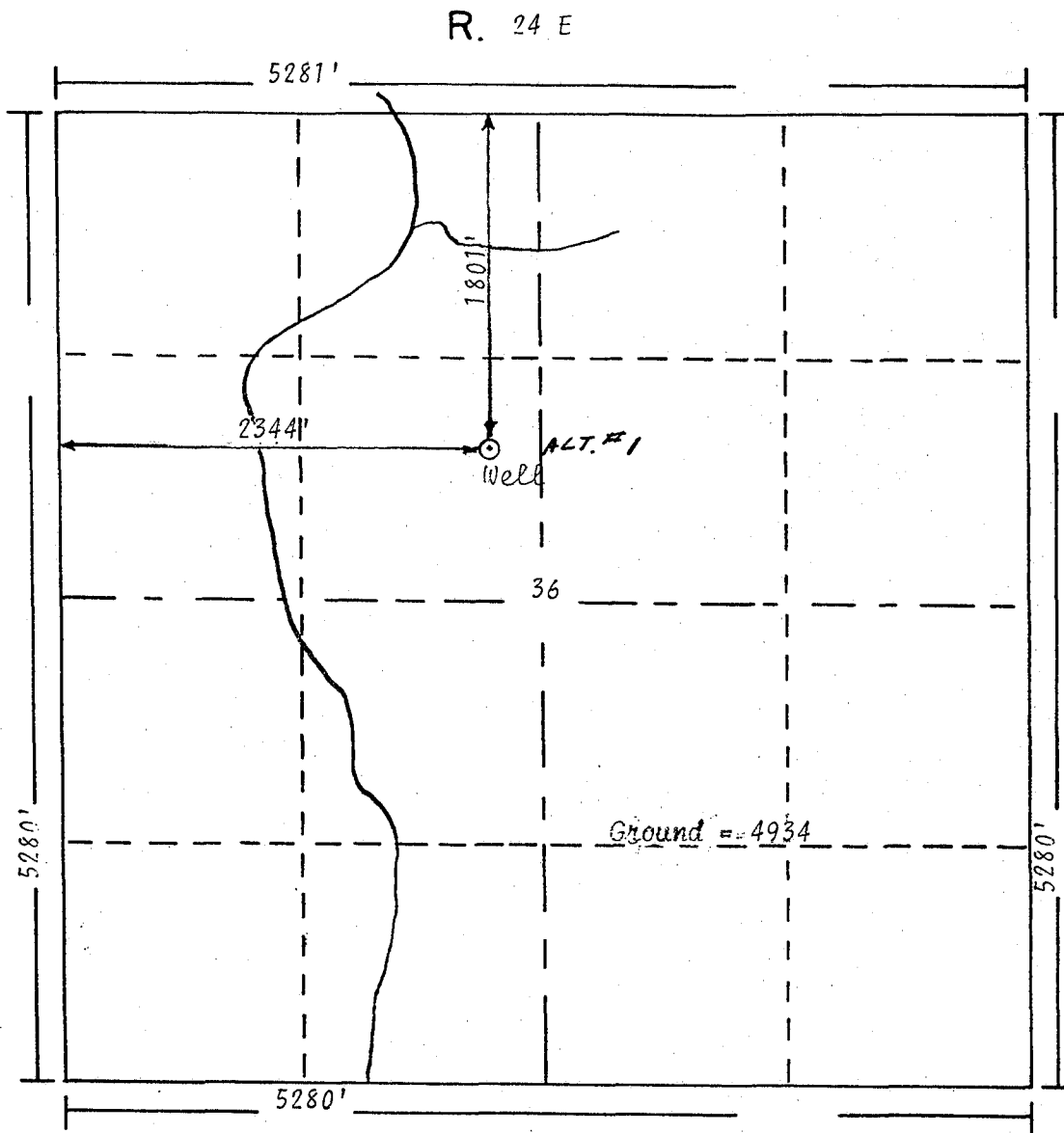
Permit No.

Approval Date

Approved by  
 Conditions of approval, if any:

Title

Date



Scale... 1" = 1000'

**Powers Elevation of Denver, Colorado**

has in accordance with a request from John Dolezal  
for Harper Oil Co.

determined the location of 6-36 State Alt. #1  
to be 1801' FNL & 2344' FWL

Range 24 E of the SLB and

Section 36 Township 37 S  
Meridian

San Juan County, Utah

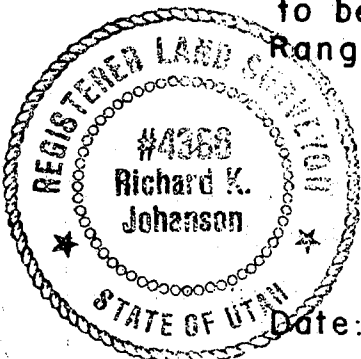
I hereby certify that this plat is an  
accurate representation of a correct  
survey showing the location of #6-36

State Alt. #1

Date: Dec. 19, 1984

*Richard K. Johanson*

Licensed Land Surveyor No. 4386  
State of Utah



DESIGNATION OF OPERATOR

The undersigned is, on the records of the Department of Natural Resources, Division of State Lands, holder of lease, ML 35744 : and hereby designates

NAME: HARPER OIL COMPANY

ADDRESS: P. O. Box 5928 T.A.  
Denver, CO 80217

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Director of the Division of State Lands or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leases with respect to (describe acreage to which this designation is applicable):

Township 37 South, Range 24 East, SLM  
Section 36: All

Containing 640.00 acres, more or less

Located in San Juan County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director, Division of State Lands or his representative.

The lessee agrees promptly to notify the Division of State Lands of any change in the designated operator.

TENNECO OIL COMPANY

*P.W. Cayce, Jr.*  
\_\_\_\_\_  
(Signature of Lessee)  
3u P. W. Cayce, Jr., Attorney-in-Fact  
mab

P. O. Box 3249  
Englewood, CO 80155

November 2, 1984  
(Date)

\_\_\_\_\_  
(Address)

SUPERVISOR, OIL AND GAS OPERATIONS:

**DESIGNATION OF OPERATOR**

The undersigned is, on the records of the Bureau of Land Management, holder of oil and gas lease

DISTRICT LAND OFFICE: 136 E. S. Temple, Salt Lake City, Utah 84111  
SERIAL NO.: ML-35744

and hereby designates

NAME: Harper Oil Company  
ADDRESS: 1625 Broadway, Suite 1200  
Denver, Colorado 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 37 South - Range 24 East, SLM  
Section 36: All  
San Juan County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the oil and gas supervisor of any change in the designated operator.

DUNCAN EXPLORATION COMPANY

  
(Signature of lessee)

BY: Raymond T. Duncan, Venture Manager  
1777 South Harrison, Penthouse One  
Denver, Colorado 80210

(Address)

11/9/84

(Date)

HARPER OIL COMPANY  
Drilling Prognosis

1. WELL NAME: # 6-36 STATE DATE: JAN 21, 1985

LOCATION: NW/4 SEC 36-37S-24E ELEV: 4934' GL  
SAN JUAN CO., UTAH  
STATE LSE #ML-35744

2. DIRECTIONS TO WELL FROM NEAREST TOWN OR LANDMARK:  
Apprx 18 miles southeast of Blanding, Utah. See red line on  
attached topographic map.

3. LANDOWNER NAME AND ADDRESS:  
Guy C. & Virginia D. Tracy & William Monte & Deana Dalton  
Monticello, Utah address & phone N/A  
(801)587-2314

Surface negotiations with;  
Max Dalton  
P.O. Box 305  
Monticello, Utah 84535  
(801)587-2716

4. MINERAL OWNER NAME AND ADDRESS:  
STATE

5. STIPULATIONS:  
Cultural Resource Mgmt. Report Attached

6. ESTIMATED FORMATION TOPS:

<u>Formation</u>	<u>Depth</u>
HONAKER TRAIL	4300'
PARADOX	4860'
ISMAY	5234'
A SHALE	5374'
L. ISMAY	5414'
GOTHIC SHALE	5469'
DESERT CREEK	5489'
PARADOX SALT	5650'
PROJECTED TD	5650'

7. B.O.P. AND SAFETY REQUIREMENTS:  
3000# double ram preventer  
3000# spherical

All necessary and usual procedures to promote a safe  
job-site work environment.

8. CASING PROGRAM:

a. Surface Casing:

9-5/8" 36# J-55 ST&C @ 1800'

b. Production Casing:

5-1/2" 15.5# K-55 LT&C @ 5650'

9. MUD PROGRAM:

<u>Interval</u>	<u>MW</u>	<u>VIS</u>	<u>WL</u>	<u>TYPE</u>
Spud-1800'	8.5-8.8	35		N/C
1800'-5000'	8.3-8.8	28-32		N/C
5000'-TD	8.9-9.3	35-45	8-15	

Wtr & native, gel & lm  
as needed for hole cleaning  
Same as above with bentonite  
ext. for hole cleaning and  
additional solids removal.  
(low solids, non-dispersed)  
Disperse solids & add polymer  
for filtrate control. Some  
thinning may become needed.

10. MUD LOGGING

2-man mud-logging unit from 3500' to TD.

11. CORES & DST's

(1) 30' whole core.

DST's in the ISMAY and possibly the DESERT CREEK.

Times to be determined.

12. ELECTRIC LOGGING PROGRAM:

BHC acoustic	Surf - TD
DIL/SFL/GR	Surf - TD
Litho-Dens/CNL/GR	4000' - TD
Dipmeter	5000' - TD

13. CEMENTING PROGRAM:

a. Surface Casing:

950 sx Class "B", w/ 1/4# per sx flocele, 2% Calcium Chl.

Based on fill plus 100%.

b. Production Casing:

Use cementing recommendations only as a guideline, specifics may vary.

Run cmt guide shoe, 1 jt csg, insert float with fill tube.

Place centralizers and cmt baskets at optimum places in the string.

Figure annular volume to cover 50+' above the uppermost  
potentially productive zone, plus 20%.

Cement estimates are as follows;

Precede cement with 20 bbl. Flush.  
300sx Class"H", 3% potassium chl, .8% Halad-9, .25#/sx NF-P  
Volume requirements based on perfect fill plus 50%.  
Actual requirements should be based on caliper log.  
Reciprocate pipe while circ & cmtg

14. SPECIAL WELL EQUIPMENT:

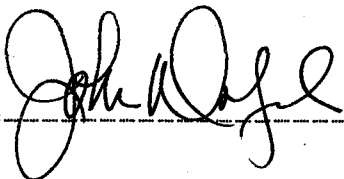
None anticipated

15. WELL OBLIGATION AND REQUIREMENT SHEET:

Not available

PREPARED BY:

JOHN DOLEZAL

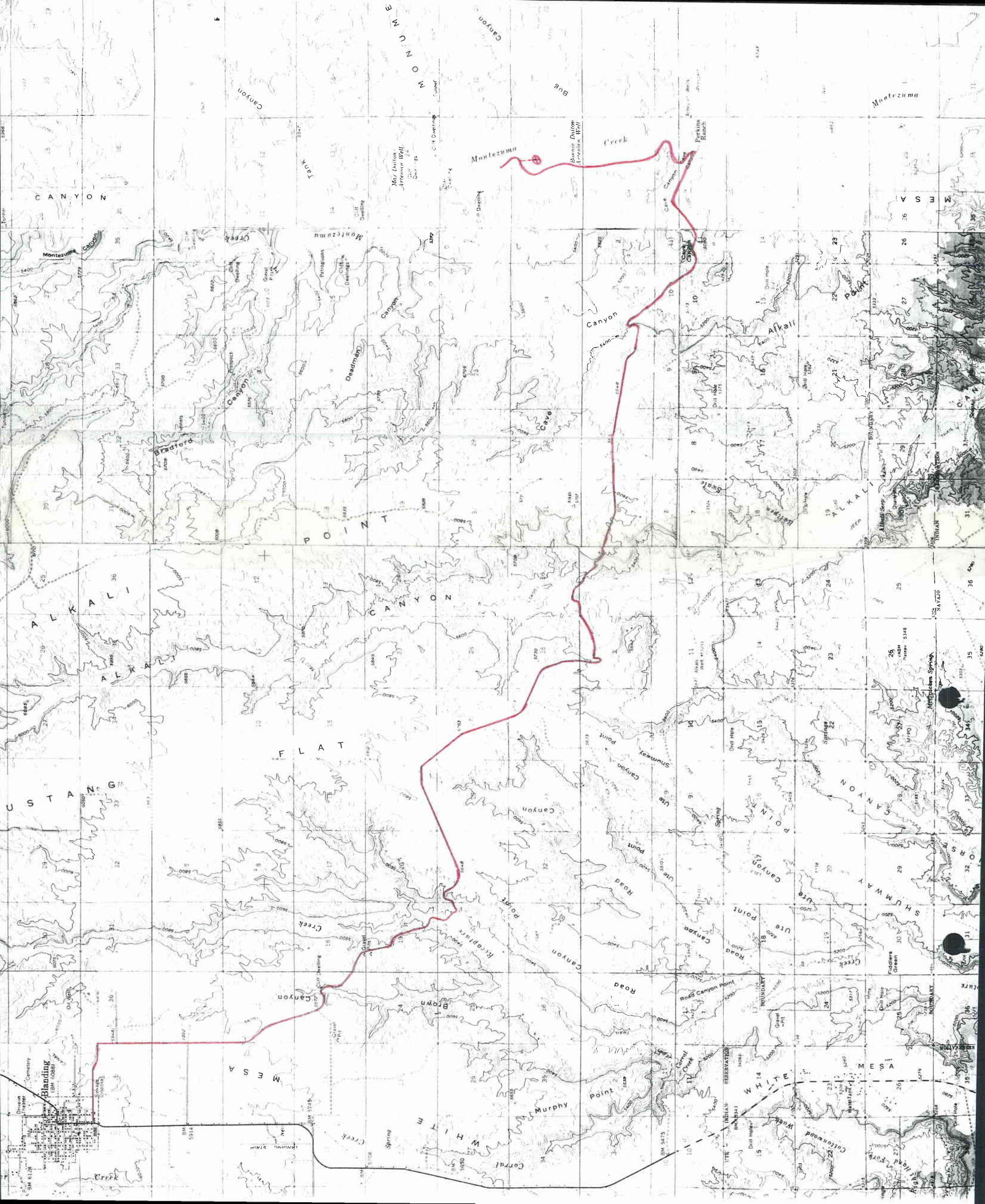


APPROVED BY:



CC: Well File  
Alex Nash  
Jerry McDonald  
Rod Smith



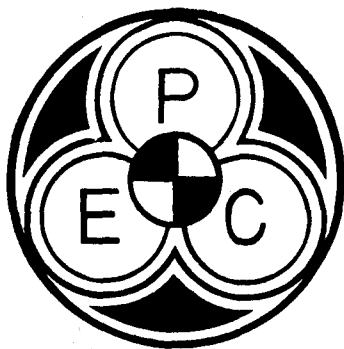




# Cultural Resource Management Report

Harper Oil Company  
#6-36 State  
San Juan County, Utah

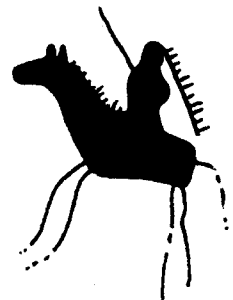
Lead Field Investigator	Patrick L. Harden
Principal Investigator	Patrick L. Harden U-84-20-258p
Date January 2, 1985	For Harper Oil Company



## POWERS ELEVATION

CHERRY CREEK PLAZA, SUITE 1201  
600 SOUTH CHERRY ST., DENVER, COLORADO 80222  
(303) 321-2217

### Archæology Division



A DIVISION OF PETROLEUM INFORMATION CORPORATION/A SUBSIDIARY OF A.C. NIELSEN COMPANY

## ABSTRACT

The archeological survey of Harper Oil Company's #6-36 State well pad and access routes was conducted by personnel of La Plata Archeological Consultants, Inc. on December 22, 1984. The survey was requested by Powers Elevation, permit agents for Harper Oil. The project area is located on privately owned land in San Juan County, Utah, with State minerals involved. Two alternate well locations encompassing an area 1200 X 600 feet in size (16.5 acres) and a 100' wide corridor along two potential access routes were archeologically surveyed. Two prehistoric sites were found during the survey, although neither of the sites are in the project impact area and should receive no adverse effect from construction activities. Provided that both of the sites are avoided during pad construction and well operation archeological clearance for the project is recommended.

## INTRODUCTION

The archeological survey of the #6-36 State well pad and access routes was requested by Ms. Marcia Tate of Powers Elevation, acting permit agent for the developer - Harper Oil Company. The survey was conducted by Patrick Harden of La Plata Archeological Consultants, Inc. of Dolores, Colorado on December 22, 1984. The project is located on privately owned land in San Juan County, Utah. Minerals are owned by the State.

Since the originally requested pad location fell in the center

of Montezuma Creek two alternate locations were staked by Power's land surveyor. Alternate #1 lies on a low terrace, (former floodplain) on the east side of the creek, while alternate #2 is on the current floodplain west of the creek. The access route for #1 (if selected for drilling) is contained on the low terrace and joins an existing road south of the pad. The access for #2 runs directly west and joins the improved Montezuma Canyon road.

The well pad locations are located in the SE $\frac{1}{4}$ , NW $\frac{1}{4}$  of section 36, T37S, R24E, San Juan County, Utah. The area is contained on the Monument Canyon, Utah-Colo. 15' series topographic map.

#### PHYSIOGRAPHY AND ENVIRONMENT

The project area is located in the bottom of Montezuma Canyon on a low terrace east of Montezuma Creek (alternate #1) and on the floodplain just west of the creek (alternate #2). The channel of the creek has evidently changed since the topographic map was made (1957), and has shifted ca. 700' to the east from what is contained on the map. The channel currently splits the two well pad areas, but is effectively off of both proposed sites.

Vegetation consists of a shadscale plant community except on the floodplain. Greasewood, sagebrush, saltbush, cheat grass, and wolfberry are represented on the drier terrain. Cottonwood and willow dominates the floodplain.

Sediments consist of alluvial sand over most of the area,



although colluvial sand to boulder sized detritus is present along the slopes of a low ridge which borders the surveyed area on the east.

There are no sources of permanent water in the project area, although Montezuma Creek carries water for most of the year and a considerable amount during spring runoff.

#### SURVEY PROCEDURES

On-the-ground survey consisted of walking a series of transects spaced 15 meters apart across an area 1200 X 600 feet in size (16.5 acres) surrounding the two pad center stakes. An area 600 X 600' around each stake was inventoried for cultural resources. Two access routes were also archeologically surveyed, each 100' wide. A total of ca. 500' of access for each pad was surveyed. Both of the archeological sites found were recorded on standard IMACS site forms.

#### SURVEY RESULTS

Two archeological sites were found in the survey area. Both sites are to the east of the pad location for alternate #1 and well outside of the project impact area. Also, an old terrace remnant lies between the pad and the sites and should inhibit trespass into the site areas. Brief descriptions of the sites recorded are presented below. More detailed information is contained in the site forms submitted to the Division of State History and to Powers Elevation.



SITE NO. 42SA16759

DESCRIPTION: This site consists of a masonry roomblock of ca. 8-15 rooms and a surrounding sheet midden. Rubble is over 1m high on the north wall of the structure. It could not be determined if a kiva was present or not. Erosion has caused some disturbance to the pueblo and consequently wall outlines are indistinct in many places. The midden appears to have only ephemeral depth, with numerous sherds, a few flakes, and a sparse amount of burned rock lying on deflated surfaces. Ceramics indicate a possible multi-component site (PII and PIII) or an early PIII occupation. The site is located on the west slope of a low ridge just above a terrace remnant paralleling the floodplain of Montezuma Creek on its east side.

SITE NO. 42SA16760

DESCRIPTION: This site consists of a 15m long masonry wall fronting a rather shallow overhang in a rock bluff located just above and on a terrace remnant on the west side of the floodplain of Montezuma Creek. Only five sherds and three flakes were noted in the site area. The paucity of artifacts suggest that if a midden was ever present it may have been on the former floodplain and either buried or eroded away. Two upright slabs ca. 8' apart are on the terrace ca. 30m north of the structure, but no other cultural material or features were associated with the uprights. A probable structure is represented by the uprights, however. Ceramics indicate a PII-PIII affiliation of the larger structure.

Both sites are considered to be significant and potentially eligible for nomination to the National Register of Historic Places. Both sites should be strictly avoided during all phases of construction and well operation.

#### CONCLUSION

The archeological survey of Harper Oil Company's #6-36 State well pads (alternates #1 and #2) and access routes was conducted

by personnel of La Plata Archeological Consultants, Inc. on December 22, 1984. The originally requested pad location could not be used since it fell in the channel of Montezuma Creek, thus two alternate pad locations were staked and surveyed. An area 1200 X 600 feet surrounding the pads was inventoried for cultural resources. A 600 X 600' area surrounding each center stake was inventoried. Also, a 100' wide corridor along 500' of access road for each location was surveyed. The project area is located on privately owned land in San Juan County, Utah with State minerals involved.

Two archeological sites were found to the east of the alternate #1 location and well off of the pad. In addition to being outside of the project impact area per se a low terrace remnant should inhibit trespass into the site areas. Provided that both sites are strictly avoided during all phases of construction and well operation archeological clearance is recommended. If vandalism occurs on either site as a result of the proximity of the well it is recommended that the site/s be fully excavated.

## Part A - Administrative Data

## INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM

Form approved for use by

BLM - Utah, Idaho, Nevada, Wyoming

Division of State History - Utah, Wyoming

USFS - Intermountain Region

NPS - Utah, Wyoming

\*1. State No. 42SA16759  
 \*2. Agency No. \_\_\_\_\_  
 3. Temp No. 84127-1  
 County San Juan

4. State Utah  
 5. Project Harper 84127  
 \*6. Report No. LAC Report 84127  
 7. Site Name none  
 8. Class ☒ Prehistoric ☐ Historic ☐ Paleontologic ☐ Ethnographic  
 9. Site Type habitation  
 \*10. Elevation 5000 ft.  
 \*11. UTM Grid Zone 12 656400 m E 4154950 m N  
 \*12. NW of SW of NE of Section 36 T. 37S R. 24E  
 \*13. Meridian Salt Lake  
 \*14. Map Reference Monument Canyon, Utah-Colo. 1957 15' series  
 15. Aerial Photo none  
 16. Location and Access From Perkins road east of Blanding take Montezuma Canyon road north 2½ miles to where floodplain vegetation gets close to road; walk east and cross creek to bluff.

\*17. Land Owner private  
 \*18. Federal Admin. Units Forest \_\_\_\_\_ District \_\_\_\_\_ Nat'l Park \_\_\_\_\_  
 \*19. Planning Units (USFS only) \_\_\_\_\_  
 20. Site Description This site consists of a roomblock of approximately 8-15 rooms and a sheet midden. The site is located on the west slope of a low ridge just above a terrace remnant paralleling Montezuma Creek and on its east side. Erosion has caused some disturbance to the pueblo with wall outlines indistinct in many places. It could not be determined if a kiva is present or not. Rubble is over 1m high on the wall on the north side. The midden appears to have only ephemeral depth and includes numerous sherds, a few flakes, and a sparse amount of burned rock. Artifacts are eroding down slope to the south and west. The site may be multi-component (PII and PIII) or early PIII.

\*21. Site Condition ☒ Excellent (A) ☐ Good (B) ☐ Fair (C) ☐ Poor (D)  
 \*22. Impact Agent(s) natural deterioration

\*23. Nat. Register Status ☒ Significant (C) ☐ Non-Significant (D) ☐ Unevaluated (USFS only) (Z)  
 Justify information on subsistence activities and social organization available

24. Photos 8489-4  
 25. Recorded by Patrick L. Harden  
 \*26. Survey Organization La Plata Archeological Consultants, Inc. \*28. Survey Date 12/22/84  
 27. Assisting Crew Members none

\*Encoded data items

# Part A - Environmental Data

Site No.(s) 42SA16759

\*29. Slope 15 (Degrees) 220 Aspect (Degrees)  
 \*30. Direction/Distance to Permanent Water 160 Bearing (Degrees) 12 x 100 Meters  
 \*Type of Water Source ☒ Spring/Seep (A) ☐ Stream/River (B) ☐ Lake (C) ☐ Other (D)  
 Name of Water Source Bonnie Dalton Artesian Well  
 Distance to Nearest Other Water Source/Type 50m/intermittent wash

\*31. Geographic Unit Colorado Plateau/Blanding Basin

\*32. Topographic Location (check one under each heading)

PRIMARY LANDFORM	PRIMARY POSITION	SECONDARY LANDFORM	SECONDARY POSITION
<input type="checkbox"/> mountain spine(A)	<input type="checkbox"/> top/crest/peak(A)	<input type="checkbox"/> alluvial fan(A)	<input type="checkbox"/> top/crest/peak(A)
<input type="checkbox"/> hill(B)	<input type="checkbox"/> edge(B)	<input type="checkbox"/> alcove/rock shelter(B)	<input type="checkbox"/> edge(B)
<input type="checkbox"/> tab/land/mesa(C)	<input type="checkbox"/> slope(C)	<input type="checkbox"/> arroyo(C)	<input checked="" type="checkbox"/> slope(C)
<input type="checkbox"/> ridge(D)	<input checked="" type="checkbox"/> toe/foot/bottom/mouth(D)	<input type="checkbox"/> basin(D)	<input type="checkbox"/> toe/foot/bottom/mouth(D)
<input type="checkbox"/> valley(E)	<input type="checkbox"/> saddle/pass(E)	<input type="checkbox"/> cave(E)	<input type="checkbox"/> interior(G)
<input type="checkbox"/> plain(F)	<input type="checkbox"/> bench/ledge(F)	<input type="checkbox"/> cliff(F)	<input type="checkbox"/> step(H)
<input checked="" type="checkbox"/> canyon(G)	<input type="checkbox"/> rimrock(G)	<input type="checkbox"/> delta(G)	<input type="checkbox"/> riser(I)
<input type="checkbox"/> island(H)	<input type="checkbox"/> interior(H)	<input type="checkbox"/> detached monolith(H)	<input type="checkbox"/> patterned ground (N)
		<input type="checkbox"/> dune(I)	<input type="checkbox"/> face(O)
		<input type="checkbox"/> floodplain(J)	<input type="checkbox"/> saddle/pass(F)
		<input type="checkbox"/> ledge(K)	
		<input type="checkbox"/> mesa/butte(L)	
		<input type="checkbox"/> playa(M)	
		<input type="checkbox"/> port.geo.feature(N)	
		<input type="checkbox"/> plain(O)	
		<input checked="" type="checkbox"/> ridge/knoll(P)	
		<input type="checkbox"/> slope(O)	
		<input type="checkbox"/> terrace/bench(R)	
		<input type="checkbox"/> talus slope(S)	
		<input type="checkbox"/> island(T)	
		<input type="checkbox"/> outcrop(U)	
		<input type="checkbox"/> spring mound/bog(V)	
		<input type="checkbox"/> valley(W)	
		<input type="checkbox"/> cutbank(X)	
		<input type="checkbox"/> riser(Y)	

Describe see item 20

\*33. On-site Depositional Context

<input type="checkbox"/> fan(A)	<input type="checkbox"/> outcrop(Q)	<input type="checkbox"/> moraine(J)	<input type="checkbox"/> desert pavement(P)
<input type="checkbox"/> talus(B)	<input type="checkbox"/> extinct lake(F)	<input type="checkbox"/> flood plain(K)	<input type="checkbox"/> stream bed(R)
<input type="checkbox"/> dune(C)	<input type="checkbox"/> extant lake(G)	<input type="checkbox"/> marsh(L)	<input type="checkbox"/> aeolian(S)
<input type="checkbox"/> stream terrace(D)	<input type="checkbox"/> alluvial plain(H)	<input type="checkbox"/> landslide/slump(M)	<input type="checkbox"/> none(T)
<input type="checkbox"/> playa(E)	<input checked="" type="checkbox"/> colluvium(I)	<input type="checkbox"/> delta(N)	<input type="checkbox"/> residual(U)

Description of Soil sand to boulder sized sandstone

34. Vegetation

\*a. Life Zone ☐ Arctic-Alpine(A) ☐ Hudsonian(B) ☐ Canadian(C) ☐ Transitional(D) ☒ Upper Sonoran(E) ☐ Lower Sonoran(F)

\*b. Community ☒ - Primary On-Site ☐ - Secondary On-Site ☐ - Surrounding Site

Aspen(A)	Other/Mixed Conifer(G)	Grassland/Steppe(M)	Marsh/Swamp(S)
Spruce-Fir(B)	Pinyon-Juniper Woodland(H)	Desert Lake Shore(N)	Lake/Reservoir(T)
Douglas Fir(C)	Wet Meadow(I)	Shadscale Community(O)	Agricultural(U)
Alpine Tundra(D)	Dry Meadow(J)	Tall Sagebrush(P)	Blackbrush(V)
Ponderosa Pine(E)	Oak-Maple Shrub(K)	Low Sagebrush(Q)	Creosote Bush(Y)
Lodgepole Pine(F)	Riparian(L)	Barren(R)	

Describe greasewood, wolfberry, sagebrush, and saltbush on site; greasewood on terrace below site; cottonwood and willow along floodplain

\*35. Miscellaneous Text

36. Comments/Continuations/Location of Curated Materials and Records

List of Attachments:

☒ Part B  
☐ Part C

☒ Topo Map  
☒ Site Sketch

☒ Photos  
☐ Artifact/Feature Sketch

☐ Continuation Sheets  
☐ Other

## Part B - Prehistoric Sites

Site No.(s) 42SA16759

1. Site Type habitation

2. Culture                      AFFILIATION                      DATING                       
                     PII/PIII                      ceramics                       
                                                                                   

3. Site Dimensions 20 m X 20 m \*Area 400 sq m

4. Surface Collection/Method ☒ None (A) ☐ Designed Sample (C)  
☐ Grab Sample (B) ☐ Complete Collection (D)  
Sampling Method                     

5. Estimated Depth of Fill ☐ Surface (A) ☐ 20-100 cm (C) ☐ Fill noted but unknown (E)  
☐ 0-20 cm (B) ☒ 100 cm + (D)  
How Estimated surface features  
(If tested, show location on site map.)

6. Excavation Status ☐ Excavated (A) ☐ Tested (B) ☒ Unexcavated (C)  
Testing Method                     

7. Summary of Artifacts and Debris  
☒ Lithic Scatter (LS) ☐ Isolated Artifact (IA) ☒ Burned Stone (BS)  
☒ Ceramic Scatter (CS) ☐ Organic Remains (VR) ☒ Ground Stone (GS)  
☐ Basketry/Textiles (BT) ☐ Shell (SL) ☐ Lithic Source(s)  
Describe see item 20  
                      
                      
                      
                      
                      
                      
                    

8. Lithic Tools

#	TYPE	#	TYPE
2	manos		
2	hammerstones		

Describe Manos: 1 complete and 1 fragment of two handed unifacial types  
Hammerstones: spherical quartzite with battered edges  
                      
                      
                      
                      
                      
                      
                    

9. Lithic Debitage - Estimated Total Quantity ☐ None (A) ☐ 10-25 (C) ☐ 100-500 (E)  
☐ 1-9 (B) ☒ 25-100 (D) ☐ 500+ (F)  
Material Type quartzite, chalcedony, chert  
Flaking Stages (0) Not Present (1) Rare (2) Common (3) Dominant  
Decortication 1 Secondary 2 Tertiary 3 Shatter 1 Core 1

10. Maximum Density-#/sq m (all lithics)



## \*11. Ceramic Artifacts

#	TYPE	#	TYPE
100	unclassifiable grayware	5	Mancos B/W
15	unclassifiable corrugated	30	unclassifiable B/W
1	Mancos Corrugated		
10	Mesa Verde B/W		
30	McElmo B/W		

Describe

12. Maximum Density-#/sq m (ceramics) 30

## \*13. Non-Architectural Features (locate on site map)

- ☐ Hearth/Firepit (HE)   ☐ Rubble Mound (RM)   ☐ Earthen Mound (EM)   ☐ Water Control (WC)  
☒ Midden (MD)   ☐ Stone Circle (SC)   ☐ Burial (BU)   ☐ Petroglyph (PE)  
☐ Depression (DE)   ☐ Rock Alignment (RA)   ☐ Talus Pit (TP)   ☐ Pictograph (PI)

Describe see item 20

## \*14. Architectural Features (locate on site map)

#	MATERIAL	TYPE	#	MATERIAL	TYPE
1	masonry	multi-room			

Describe see item 20

## 15. Comments/Continuations

Encoder's Name Candice Sand

A

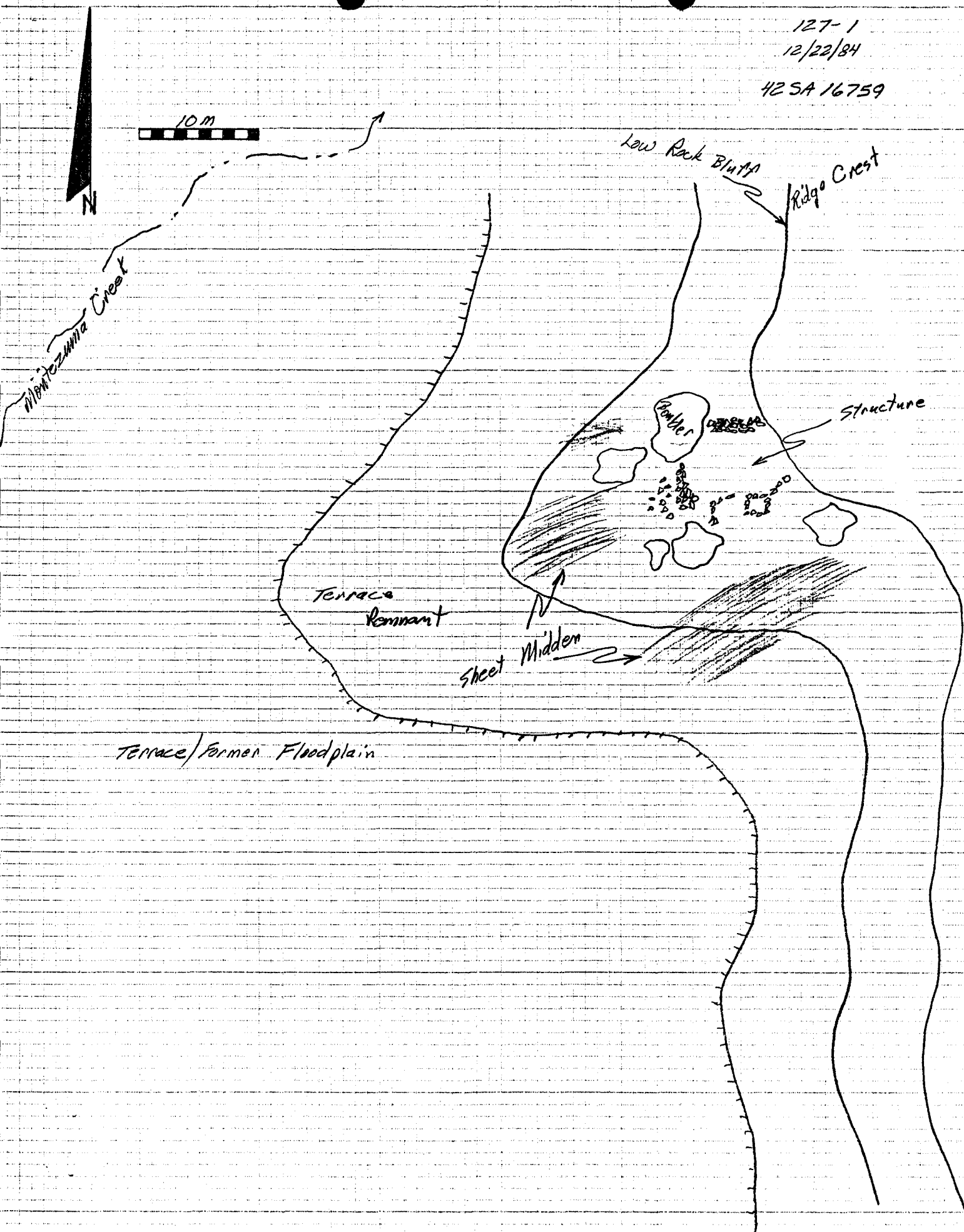
# B

C

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 0

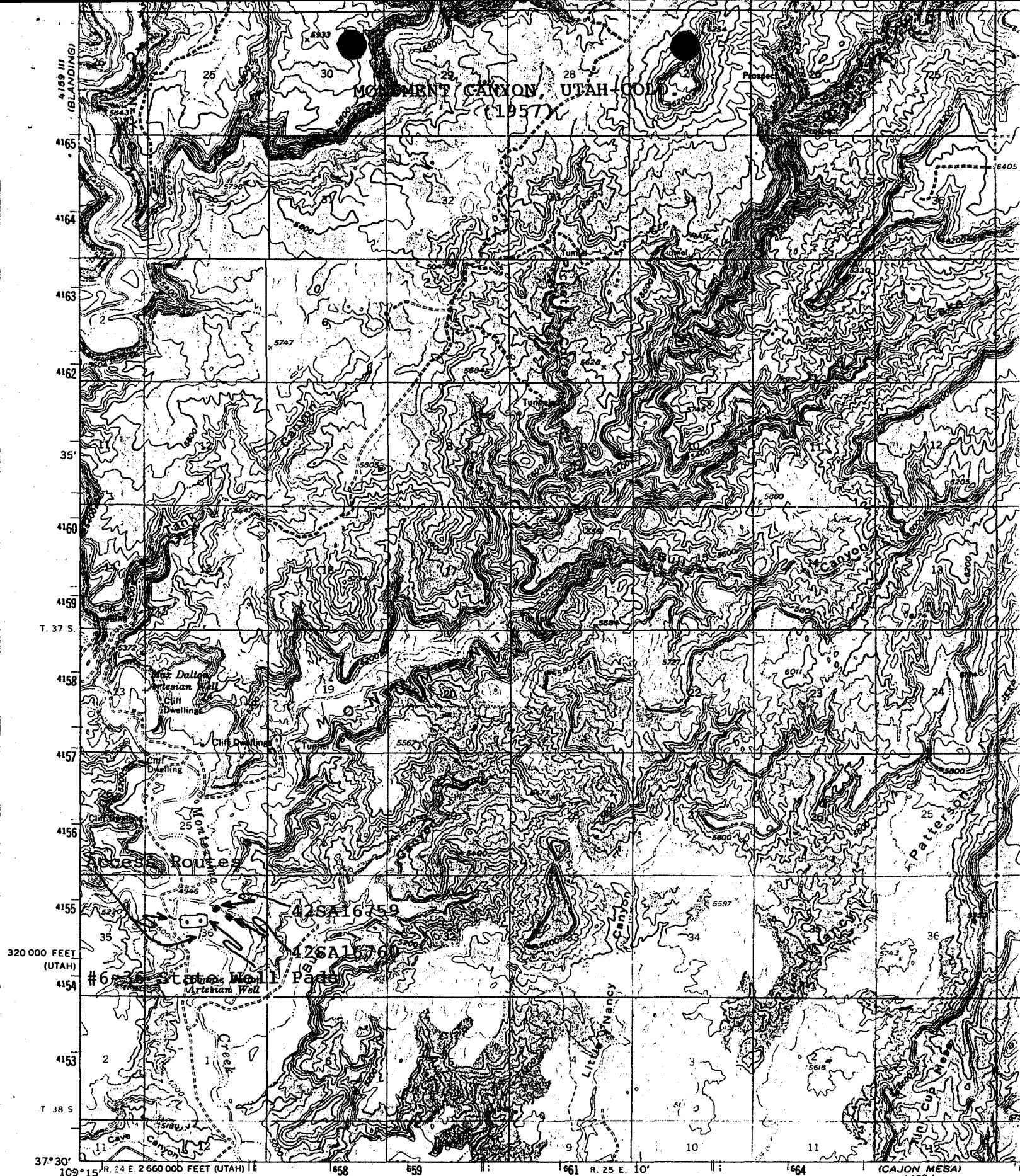
127-1  
12/22/84

42 SA 16759





42SA16759: General Site Area, Looking Northeast.

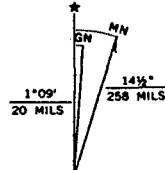


Mapped, edited, and published by the Geological Survey  
Control by USGS and USC&GS

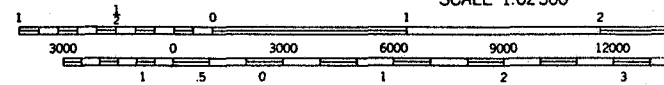
Topography from aerial photographs by photogrammetric methods  
Aerial photographs taken 1953 and 1955  
Advance field check 1954 and 1957

Polyconic projection. 1927 North American datum  
10,000-foot grids based on Utah coordinate system, south zone  
and Colorado coordinate system, south zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 12, shown in blue

[3]



UTM GRID AND 1957 MAGNETIC NORTH



CONTOUR INTERVAL 40 FEET  
DATUM IS MEAN SEA LEVEL

SCALE 1:62500

(CAJON MESA)  
4138 I



## Part A - Administrative Data

## INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM

Form approved for use by

BLM - Utah, Idaho, Nevada, Wyoming

Division of State History - Utah, Wyoming

USFS - Intermountain Region

NPS - Utah, Wyoming

\*1. State No. 42SA16760

\*2. Agency No.

3. Temp No. 127-2

County San Juan

4. State Utah

5. Project Harper 84127

\*6. Report No. LAC Report 84127

7. Site Name none

8. Class ☒ Prehistoric ☐ Historic ☐ Paleontologic ☐ Ethnographic

9. Site Type habitation - rockshelter

\*10. Elevation 5000 ft.

\*11. UTM Grid Zone 12 656600 m E 4154825 m N

\*12. NE of SW of NE of Section 36 T. 37S R. 24E

\*13. Meridian Salt Lake

\*14. Map Reference Monument Canyon, Utah-Colo. 1957 15' series

15. Aerial Photo none

16. Location and Access From Perkins road east of Blanding take Montezuma Canyon road north 2 1/2 miles to where floodplain vegetation gets close to road; walk east and cross creek to bluff.

\*17. Land Owner private

\*18. Federal Admin. Units Forest District Nat'l Park

\*19. Planning Units (USFS only)

20. Site Description This site consists of a 15m long wall fronting a rather shallow overhang in a rock bluff. Only five sherds and three flakes were noted in the site area. Two upright slabs were noted ca. 30m north of the structure, but no other cultural material or features were associated with the uprights. A terrace remnant fronts the structure and the uprights are also on it. The floodplain (former) of Montezuma Creek is 10m west of the rock bluff in which the structure is located. No cross walls were noted, although a grading sediments may be obscuring them. The paucity of artifacts suggest that if a midden was ever present it may have been on the former floodplain and either buried or eroded away. Ceramics indicate a PII-PIII affiliation.

\*21. Site Condition ☐ Excellent (A) ☒ Good (B) ☐ Fair (C) ☐ Poor (D)

\*22. Impact Agent(s) natural deterioration

\*23. Nat. Register Status ☒ Significant (C) ☐ Non-Significant (D) ☐ Unevaluated (USFS only) (Z)

Justify information on habitation and subsistence activities available

24. Photos 8489-5

25. Recorded by Patrick L. Harden

\*26. Survey Organization La Plata Archeological Consultants, Inc.

\*28. Survey Date 12/22/84

27. Assisting Crew Members none

\*Encoded data items

# Part A - Environmental Data

Site No.(s) 42SA16760

- \*29. Slope 15 (Degrees) 200 Aspect (Degrees)
- \*30. Direction/Distance to Permanent Water 170 Bearing (Degrees) 12 x 100 Meters
- \*Type of Water Source ☒ Spring/Seep (A) ☐ Stream/River (B) ☐ Lake (C) ☐ Other (D)
- Name of Water Source Bonnie Dalton Artesian Well
- Distance to Nearest Other Water Source/Type 90m/intermittent wash

\*31. Geographic Unit Colorado Plateau/Blanding Basin

\*32. Topographic Location (check one under each heading)

PRIMARY LANDFORM	PRIMARY POSITION	SECONDARY LANDFORM	SECONDARY POSITION
<input type="checkbox"/> mountain spine(A)	<input type="checkbox"/> top/crest/peak(A)	<input type="checkbox"/> alluvial fan(A)	<input type="checkbox"/> top/crest/peak(A)
<input type="checkbox"/> hill(B)	<input type="checkbox"/> edge(B)	<input checked="" type="checkbox"/> alcove/rock shelter(B)	<input checked="" type="checkbox"/> edge(B)
<input type="checkbox"/> tab/land/mesa(C)	<input type="checkbox"/> slope(C)	<input type="checkbox"/> arroyo(C)	<input type="checkbox"/> slope(C)
<input type="checkbox"/> ridge(D)	<input checked="" type="checkbox"/> toe/foot/bottom/mouth(D)	<input type="checkbox"/> basin(D)	<input type="checkbox"/> toe/foot/bottom/mouth(D)
<input type="checkbox"/> valley(E)	<input type="checkbox"/> saddle/pass(E)	<input type="checkbox"/> cave(E)	<input type="checkbox"/> interior(G)
<input type="checkbox"/> plain(F)	<input type="checkbox"/> bench/ledge(F)	<input type="checkbox"/> cliff(F)	<input type="checkbox"/> step(H)
<input checked="" type="checkbox"/> canyon(G)	<input type="checkbox"/> rimrock(G)	<input type="checkbox"/> delta(G)	<input type="checkbox"/> riser(I)
<input type="checkbox"/> island(H)	<input type="checkbox"/> interior(H)	<input type="checkbox"/> detached monolith(H)	<input type="checkbox"/> patterned ground (N)
		<input type="checkbox"/> dune(I)	<input type="checkbox"/> face(O)
		<input type="checkbox"/> floodplain(J)	<input type="checkbox"/> saddle/pass(F)
		<input type="checkbox"/> ledge(K)	
		<input type="checkbox"/> mesa/butte(L)	
		<input type="checkbox"/> outcrop(U)	
		<input type="checkbox"/> spring mound/bog(V)	
		<input type="checkbox"/> valley(W)	
		<input type="checkbox"/> cutbank(X)	
		<input type="checkbox"/> riser(Y)	

Describe Site is in bottom of Montezuma Canyon in an overhang in a low rock bluff adjacent to the floodplain of Montezuma Creek.

\*33. On-site Depositional Context

- |                                            |                                                  |                                             |                                             |
|--------------------------------------------|--------------------------------------------------|---------------------------------------------|---------------------------------------------|
| <input type="checkbox"/> fan(A)            | <input type="checkbox"/> outcrop(Q)              | <input type="checkbox"/> moraine(J)         | <input type="checkbox"/> desert pavement(P) |
| <input type="checkbox"/> talus(B)          | <input type="checkbox"/> extinct lake(F)         | <input type="checkbox"/> flood plain(K)     | <input type="checkbox"/> stream bed(R)      |
| <input type="checkbox"/> dune(C)           | <input type="checkbox"/> extant lake(G)          | <input type="checkbox"/> marsh(L)           | <input type="checkbox"/> aeolian(S)         |
| <input type="checkbox"/> stream terrace(D) | <input type="checkbox"/> alluvial plain(H)       | <input type="checkbox"/> landslide/slump(M) | <input type="checkbox"/> none(T)            |
| <input type="checkbox"/> playa(E)          | <input checked="" type="checkbox"/> colluvium(I) | <input type="checkbox"/> delta(N)           | <input type="checkbox"/> residual(U)        |

Description of Soil sand to cobble sized sandstone

34. Vegetation

\*a. Life Zone ☐ Arctic-Alpine(A) ☐ Hudsonian(B) ☐ Canadian(C) ☐ Transitional(D) ☒ Upper Sonoran(E) ☐ Lower Sonoran(F)

\*b. Community

☒ - Primary On-Site

☐ - Secondary On-Site

☐ - Surrounding Site

- |                   |                            |                        |                   |
|-------------------|----------------------------|------------------------|-------------------|
| Aspen(A)          | Other/Mixed Conifer(G)     | Grassland/Steppe(M)    | Marsh/Swamp(S)    |
| Spruce-Fir(B)     | Pinyon-Juniper Woodland(H) | Desert Lake Shore(N)   | Lake/Reservoir(T) |
| Douglas Fir(C)    | Wet Meadow(I)              | Shadscale Community(O) | Agriculture(U)    |
| Alpine Tundra(D)  | Dry Meadow(J)              | Tall Sagebrush(P)      | Blackbrush(V)     |
| Ponderosa Pine(E) | Oak-Maple Shrub(K)         | Low Sagebrush(Q)       | Creosote Bush(Y)  |
| Lodgepole Pine(F) | Riparian(L)                | Barren(R)              |                   |

Describe greasewood and saltbush on site; greasewood to west and cottonwood and willow along creek floodplain

\*35. Miscellaneous Text

36. Comments/Continuations/Location of Curated Materials and Records

List of Attachments:

- ☒ Part B  
☐ Part C

- ☒ Topo Map  
☒ Site Sketch

- ☒ Photos  
☐ Artifact/Feature Sketch

- ☐ Continuation Sheets  
☐ Other

# Part B - Prehistoric Sites

Site No.(s) 42SA16760

1. Site Type habitation/rockshelter
- \*2. Culture
 

AFFILIATION <u>PII-PIII</u>	DATING <u>ceramics</u>	AFFILIATION _____	DATING _____
--------------------------------	---------------------------	----------------------	-----------------
3. Site Dimensions 50 m X 10 m \*Area 500 sq m
- \*4. Surface Collection/Method
 

<input checked="" type="checkbox"/> None (A)	<input type="checkbox"/> Designed Sample (C)
<input type="checkbox"/> Grab Sample (B)	<input type="checkbox"/> Complete Collection (D)

 Sampling Method \_\_\_\_\_
- \*5. Estimated Depth of Fill
 

<input type="checkbox"/> Surface (A)	<input type="checkbox"/> 20-100 cm (C)	<input checked="" type="checkbox"/> Fill noted but unknown (E)
<input type="checkbox"/> 0-20 cm (B)	<input type="checkbox"/> 100 cm + (D)	

 How Estimated surface features  
 (If tested, show location on site map.)
- \*6. Excavation Status
 

<input type="checkbox"/> Excavated (A)	<input type="checkbox"/> Tested (B)	<input checked="" type="checkbox"/> Unexcavated (C)
----------------------------------------	-------------------------------------	-----------------------------------------------------

 Testing Method \_\_\_\_\_
- \*7. Summary of Artifacts and Debris
 

<input checked="" type="checkbox"/> Lithic Scatter (LS)	<input type="checkbox"/> Isolated Artifact (IA)	<input type="checkbox"/> Burned Stone (BS)
<input checked="" type="checkbox"/> Ceramic Scatter (CS)	<input type="checkbox"/> Organic Remains (VR)	<input type="checkbox"/> Ground Stone (GS)
<input type="checkbox"/> Basketry/Textiles (BT)	<input type="checkbox"/> Shell (SL)	<input type="checkbox"/> Lithic Source(s)

 Describe see item 20  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- \*8. Lithic Tools
 

#	TYPE	#	TYPE
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

 Describe none  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- \*9. Lithic Debitage - Estimated Total Quantity
 

<input type="checkbox"/> None (A)	<input type="checkbox"/> 10-25 (C)	<input type="checkbox"/> 100-500 (E)
<input checked="" type="checkbox"/> 1-9 (B)	<input type="checkbox"/> 25-100 (D)	<input type="checkbox"/> 500 + (F)

 Material Type quartzite, chert  
 Flaking Stages (0) Not Present (1) Rare (2) Common (3) Dominant  
 Decortication 0 Secondary 0 Tertiary 1 Shatter 0 Core 0
10. Maximum Density-#/sq m (all lithics) 1

## \*11. Ceramic Artifacts

#	TYPE	#	TYPE
1	unclassifiable B/W		
1	unclassifiable corrugated		
3	unclassifiable grayware		

Describe

## 12. Maximum Density-#/sq m (ceramics)

1

## \*13. Non-Architectural Features (locate on site map)

- ☐ Hearth/Firepit (HE)   ☐ Rubble Mound (RM)   ☐ Earthen Mound (EM)   ☐ Water Control (WC)  
☐ Midden (MD)   ☐ Stone Circle (SC)   ☐ Burial (BU)   ☐ Petroglyph (PE)  
☐ Depression (DE)   ☐ Rock Alignment (RA)   ☐ Talus Pit (TP)   ☐ Pictograph (PI)

Describe

none

## \*14. Architectural Features (locate on site map)

#	MATERIAL	TYPE	#	MATERIAL	TYPE
1	masonry	multi-room			
1	jacal	single room			

Describe

two upright slabs may be part of foundation of jacal structure; see item 20

## 15. Comments/Continuations

# IMACS ENCODING FORM

To be completed for each site form.  
For instructions and codes, see IMACS Users Guide.

Encoder's Name Candy Sand

**A**

1 42 SA 01.67.60 2 - 6 - 10 05000 11 12 656600 4154.825

State Site Number Agency Site Number Agency Report Number Elevation Zone Easting Northing

12 NE SW NE 36 37 S 024 E 13 1 Merid.

$\frac{1}{4}$   $\frac{1}{4}$   $\frac{1}{4}$  Sec. T. R.

14 MONUMENT CANYON UT. 17 PR 18 - -

USGS Map Owner Forest District/Park

19 - - - 21 B 22 SD - - 23 C 26 LA 28 12-22-84 29 15 200

Capab. Anlys. Mgmt. Cond. Impacts N.R. Organ. Survey Date Slope Aspect

30 1.70 0.12 A 31 CAJ 32 GD BB 33 T 34 E 00L 35 -

Water: degrees/dist./type Geog. Unit 1st Location 2nd Dep. Vegetation Misc. Text

---

**B**

2 P.4M - - 3 00500 4 A 5 E 6 C 7 1LS 1CS 8 - - -

Culture/Date Area Coll. Depth Exca. Status Artifacts: #/type Lithic Tools: #/type

9 B 0 0 1 0 0

Flaking Stages

11 BEC BED BEA 13 - - - - - 14 1BAG 1DAP - - -

Ceramics: #/type Features: #/type Architecture: #/material/type

---

**C**

2 - - - - 3 - - - - - - 4 - - 5 - 6 - 7 - 8 -

Historic Themes Cultures/Dating Dates Area Coll. Depth Exca.

9 - - - - 10 - - - - - - 11 - - - - - - 13 - - - - - -

Artifacts: #/type Ceramics: #/type/ldmrk./dec. Glass: #/mnt./color/lunct./ldmrk. Features: #/type

14 - - - - - - - - - - - - - - - - - - - -

Architecture: #/material/type

LETTERING GUIDE

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 0



127-2  
12/22/84  
42 SA 16760

Mantezuma Creek



10 m

Low Rock Bluff

Terrace Remnant

Uprights

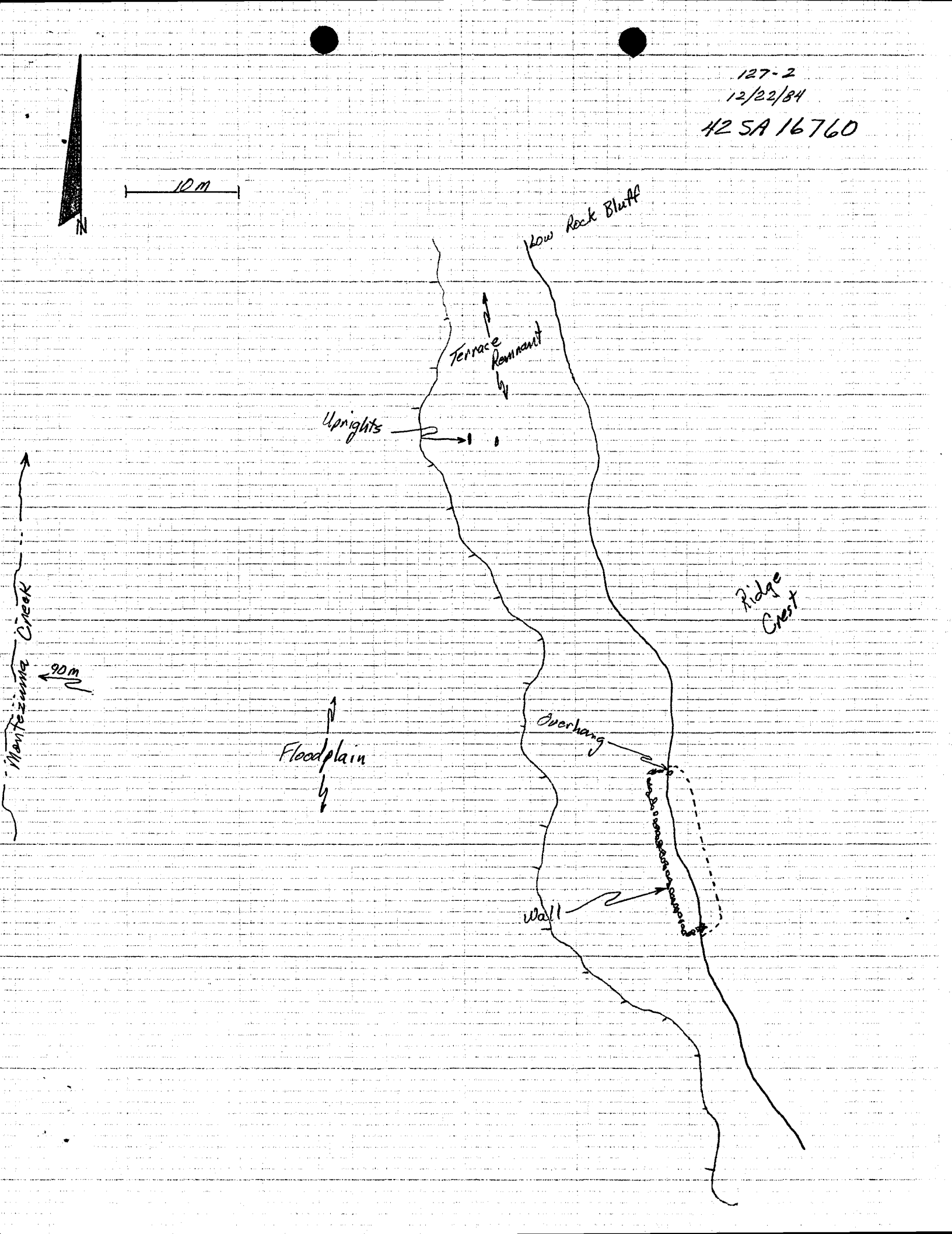
Ridge Crest

90 m

Floodplain

Overhang

Wall





42SA16760: General Site Area, Looking Southeast.



OPERATOR Harpur Oil Co. DATE 1-25-85  
WELL NAME State #6-36  
SEC SE NW 36 T 37S R 24E COUNTY San Juan

43-037-31136  
API NUMBER

State  
TYPE OF LEASE

CHECK OFF:

☒ PLAT

☒ BOND

☒ NEAREST WELL

☒ LEASE

☒ FIELD

☒ POTASH OR  
OIL SHALE

PROCESSING COMMENTS:

No other wells within 1000'

Need water permit

Exception loc.

APPROVAL LETTER:

SPACING: ☐ A-3 \_\_\_\_\_ UNIT

☐ C-3-a \_\_\_\_\_ CAUSE NO. & DATE

☐ C-3-b

☒ C-3-c

STIPULATIONS:

1- Water

2- Exception loc.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 28, 1985

Harper Oil Company  
P. O. Box 5928 T.A.  
Denver, Colorado 80217

Gentlemen:

Re: Well No. State #6-36 - SE NW Sec. 36, T. 37S, R. 24E  
1801' FNL, 2344' FWL - San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.
2. Submittal to the Division of information justifying the necessity for an exception location and verification of ownership within a radius of 500 feet of the proposed location.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Harper Oil Company  
Well No. State #6-36  
January 28, 1985  
Page 2

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31136.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. J. Firth', with a stylized flourish at the end.

R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: State Lands  
Branch of Fluid Minerals

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN TRIPLICATE\*  
 (Other instructions on  
 reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
 Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></b> <b>2. NAME OF OPERATOR</b> Harper Oil Company <b>3. ADDRESS OF OPERATOR</b> P. O. Box 5928 T. A., Denver, CO 80217 <b>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*</b> See also space 17 below.) At surface 1801' FNL & 2344' FWL (NW/4)		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> ML-35744 <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> N/A <b>7. UNIT AGREEMENT NAME</b> N/A <b>8. FARM OR LEASE NAME</b> State <b>9. WELL NO.</b> 6-36 <b>10. FIELD AND POOL, OR WILDCAT</b> Undesignated <b>11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA</b> Sec 36 T37S R24E <b>12. COUNTY OR PARISH</b> San Juan <b>13. STATE</b> Utah
<b>14. PERMIT NO.</b> 43-037-31136	<b>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</b> 4934' G.L.	

**RECEIVED**

**FEB 11 1985**

**DIVISION OF OIL  
 GAS & MINING**

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

**NOTICE OF INTENTION TO:**

TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> ABANDON* <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> (Other) <input checked="" type="checkbox"/>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**SUBSEQUENT REPORT OF:**

WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> (Other) <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\***

In response to stipulations for drilling permit approval:

1. Water for drilling will be obtained from an existing water well, owned by same surface owner. The surface owner has applied for, and the Utah Division of Water Rights, has granted a temporary permit for purposes of oil well drilling.
2. The original stake fell directly in running water of Montezuma Creek. This was the nearest topographical and geologically-suited wellsite. Verification of ownership is attached.

**18. I hereby certify that the foregoing is true and correct**

SIGNED

*John Dolezal*  
 John Dolezal

TITLE Drilling Specialist

DATE 2/8/85

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML-35744	
2. NAME OF OPERATOR Harper Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR P. O. Box 5928 T. A., Denver, CO 80217		7. UNIT AGREEMENT NAME N/A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1801' FNL & 2344' FWL (NW/4)		8. FARM OR LEASE NAME State	
		9. WELL NO. 6-36	
		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 36 T37S R24E	
14. PERMIT NO. 43-037-31136	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4934' G.L.	12. COUNTY OR PARISH San Juan	13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

X

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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18. I hereby certify that the foregoing is true and correct

SIGNED

John Dolezal

TITLE Drilling Specialist

DATE 2/8/85

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



ASSIGNMENT

Certificate No.....

Grazing Lease No.....

Application No.....

Mineral Lease No..... 35744.....

The undersigned, as owner of record title interest as hereinafter specified in and to ML#.....35744.....; GL#.....; Cert. #.....; as designated for good and valuable consideration and...(\$10.00). TEN and NO-----DOLLARS does hereby assign to..... Tenneco Oil Company (Name and Address) P.O. Box 3249, Englewood, CO 80155

the right, title, and interest in and to the lands embraced in such lease to specified below, giving and granting to assignee rights and privileges as lessee in such lands, to the extent indicated, subject to the reservations of overriding royalties as herein noted:

- 1. Lands affected by this assignment: Township 37 South - Range 24 East, SLM Sec. 36: All Containing 640 acres, more or less.

County of..... San Juan....., State of Utah.

- 2. Interest of assignor in such lands..... 100%
- 3. Extent of such interest conveyed to assignee..... 60%
- 4. Overriding royalty reserved herein to assignor..... none
- 5. Overriding royalties previously reserved..... 2.625% of 8/8ths (State percentage only)

It is hereby certified that the statements made herein are true, complete, and correct to the best of the undersigned's knowledge and belief, and are made in good faith.

Executed and witnessed this.....15th.....day of.....June....., 19.84.....

WITNESSX

DUNCAN EXPLORATION COMPANY, a Colorado joint venture

BY: *Raymond T. Duncan* Raymond T. Duncan, Venture Manager

STATE OF ~~UTAH~~ COLORADO } ss. County of..... DENVER.....

On the..... 15th..... day of..... June....., A.D. 19.84., personally appeared before me..... Raymond T. Duncan as Venture Manager of..... Duncan Exploration Company, a Colorado joint venture..... the signer(s) of the above instrument, who duly acknowledged to me that..... he..... executed the same on behalf of Duncan Exploration Company.

*Dorothy A. Misch* Notary Public

My Commission Expires: 10-11-86

Attached to and made a part of that Assignment dated June 15, 1984, from Duncan Exploration Company, Assignor, to Tenneco Oil Company, Assignee, and concerning State of Utah ML-35744.

RIDER

It is the intent that Assignee shall bear its proportionate share of all previously conveyed and/or reserved overriding royalties with the exception of the overriding royalty conveyed to Raymond T. Duncan (Raymond T. Duncan overriding royalty) by Assignment dated May 22, 1984, and recorded in Book 660, Page 100 of the records of San Juan County, Utah. Assignee shall bear 50% of the Raymond T. Duncan overriding royalty burden and Assignor shall bear the remaining 50%.

Assignment must be submitted in duplicate. The original Certificate, Grazing Lease, or Mineral Lease must be produced with the Assignment. Partial Assignments permitted on Mineral Leases only. Fees Total Assignment, \$2.00; Partial Assignment, \$7.00.

If a Corporation, see other side for Acceptance of Assignment.

UTAH STATE LAND OFFICE

PROOF READ BP VL

MINERAL LEASE NUMBER 65721

MINERAL LEASE APPLICATION NO. 35744

GRANT: SCH

OIL, GAS AND HYDROCARBON LEASE

THIS INDENTURE OF LEASE entered into this 8th day of May, 19 78, by and between the Division of State Lands, Room 105, State Capitol Building, Salt Lake City, Utah 84114, acting in behalf of the State of Utah, hereinafter called the LESSOR, and

Neva H. Henderson  
607 Crandall Building  
Salt Lake City, UT  
84101

hereinafter called the LESSEE, whether one or more.

WITNESSETH:

Section 1. RIGHTS OF LESSEE - That Lessor, in consideration of the rents and royalties to be paid and the covenants and agreements hereinafter contained and to be performed by Lessee, does hereby grant and lease to Lessee the following described tract of land in the County of San Juan, State of Utah, to-wit:

All of Section Thirty-six (36), Township Thirty-seven (37) South, Range Twenty-four (24) East, Salt Lake Meridian.

containing 640.00 acres, more or less for the purposes and with the exclusive right of prospecting for, of mining for, of excavating, quarrying, or stripmining for and/or drilling for oil, natural gas, elaterite, ozocerite, other hydrocarbons (whether the same be found in solid, semi-solid, liquid, vaporous or any other form) including tar, bitument, asphaltum, and maltha, other gases (whether combustible or non-combustible), sulphur, (except the metallic sulphide such as pyrite, marcasite and chalcopryrite) and associated substances of whatever kind or nature and whether or not similar to those hereinabove mentioned but excluding coal and oil shale (the hydrocarbons and other materials granted hereby being hereinafter collectively called "said substances") and producing, taking, and removing such substances from the above described lands, the Lessee to have the rights to construct and maintain on said lands all works, buildings, plants, waterways, road, communication lines, pipelines, reservoirs, tanks, pumping stations, or other structures necessary to the full enjoyment thereof, subject however, to the conditions hereinafter set forth.

Section 2. TERM OF LEASE - This lease unless terminated at an earlier date as hereinafter provided, shall be for a primary term of ten years from and after the first day of the month next succeeding the date of issuance hereof and for so long thereafter as any of said substances is produced in commercial quantities from the leased premises.

If operations are being diligently prosecuted on the leased premises at the end of the primary term, this lease shall be automatically extended while such operations are in progress and if production in commercial quantities shall result therefrom this lease shall be extended for so long as any of said substances is produced in commercial quantities.

In respect to the duration of the term of this lease, gas shall be deemed to be produced in paying quantities from any shut-in gas well on the leased lands which is capable of producing gas in paying quantities whenever and at such times as such gas cannot be reasonably marketed at a reasonable price by reason of existing marketing or transportation conditions: Provided, however, that Lessee shall pay to the State an additional rental equal to the annual rental payable by such Lessee under the terms of the lease, said rental to be paid on or before the annual rental paying date next ensuing after the date said well was shut-in, on or before said rental date thereafter. Upon the commencement or marketing of gas from said well or wells, the royalty paid for the lease year in which the gas is first marketed shall be credited upon the rental payable as provided hereunder to the State for such year.

The phrase "produced in paying quantities" as used in this lease shall mean the production of said substances from the above described lands in an amount which is sufficient during each lease year to yield a minimum royalty payment to Lessor equal to \$1.50 per acre for all acres of land held by Lessee under this lease.

Section 3. ANNUAL RENTAL - Lessee agrees to pay to Lessor annually in advance as rental the sum of one dollar (1.00) per acre, or fractional part thereof, per annum. Any such rental paid hereunder shall be credited against the royalties, if any, which may accrue on production during the lease year for which such rental is paid.

#### Section 4. ROYALTIES

(a) Oil - Lessee agrees to pay to Lessor a royalty of twelve and one-half percent (12½) of the oil produced, saved and sold from the leased premises; or at the option of Lessor, to pay to Lessor the cash value of such royalty. When paid in money, the royalty shall be calculated upon the reasonable market value of the oil at the well, including any subsidy or extra payment which the Lessee, or any successors in interest thereto, may receive, without regard to whether such subsidy or extra payment shall be made in the nature of money or other consideration, and, in no event shall the royalties be based upon a market value less than that used by the United States in the computation of royalties, if any, paid by this lessee to the United States of America on oil of like grade and gravity produced in the same field. When Lessor elects to take royalty oil in kind, such royalty oil shall be delivered on the premises where produced without cost to Lessor at such time and in such tanks provided by Lessee as may reasonably be required by Lessor, but in no event shall Lessee be required to hold royalty oil in storage beyond the last day of the calendar month next following the calendar month in which the oil was produced. Lessee shall not be responsible or be held liable for the loss or destruction of royalty oil in storage from causes under which Lessee has no control. For Royalty purposes, the word "oil" shall mean crude petroleum oil and any other hydrocarbons, regardless of gravities, which are produced at the well in liquid form, provided, however, oil produced from a reservoir with zero or near zero initial shut-in pressure shall bear the royalty rate specified in Section 4(c).

(b) Gas - Lessee agrees to pay to Lessor twelve and one-half percent (12½) of the reasonable market value at the well of all gas produced and saved or sold from the leased premises. Where gas is sold under a contract, and such contract has been approved in whole or conditionally by the Lessor, the reasonable market value of such gas for the purpose of determining the royalties payable hereunder, shall be the price at which the production is sold, provided that in no event shall the price for gas be less than that received by the United States of America for its royalties from gas of like grade and quality from the same field; provided, however, the reasonable market value of processed or manufactured or extracted products for the purpose of computing royalty hereunder, shall be the value after deducting the costs of processing, extracting, or manufacturing, except that the deduction for such costs may not exceed 2/3 of the amount of the gross of any such products without approval by the Lessor and, provided further, that the market value of extracted, processed, or manufactured products used in the computation of royalties hereunder shall not be less than the value used by the United States in its computation of royalties on similar products resulting from production of like grade and quality in the same field.

(c) Other Substances - For the first ten years of commercial production, Lessee agrees to pay Lessor a royalty of six and one-fourth (6¼) of the reasonable market value of all other hydrocarbon substances which are produced from a reservoir where the initial shut-in pressure is zero or near zero which in the discretion of the Land Board indicated the absence of sufficient motive force for the leased substances to enter the well bore, and where the said substances cannot be produced except by mining or removing the host rock or require the application of heat and/or solvents to remove the hydrocarbon substances from the host rock into the well bore or other form of catch trap or basin. The royalty may, at the discretion of Lessor, be increased after the first ten years of commercial production at a rate not to exceed one percent (1%) per annum until a maximum of 12½% is reached; provided, however, notwithstanding the foregoing, the royalty which Lessee shall pay at any time under this lease may, after notice and hearing, be fixed by Lessor up to the highest royalty rate then being paid, but in any event not to exceed 12½% by a Lessee producing from the same general area, reservoir, or deposit.

(d) Sulphur - Lessee agrees to pay Lessor 12½ percent of the reasonable market value of all sulphur which Lessee shall produce, save, or sell from the leased premises.

The basis for computing the reasonable market value of substances covered in this (c) and (d) shall be as follows:

(i) If the substances are sold under a bonafide contract of sale, the amount of money or its equivalent actually received from the sale of the substances less reasonable costs, if any, of transporting the substances from the place where extracted to the place where, under the contract of sale, the leased substances are to be delivered, shall be regarded as the reasonable market value.

(ii) If the lease substances extracted are treated at a mill, smelter, processing plant or reduction works which received the substances from independent sources and which is owned or controlled by the same interests owning or controlling the mine, such treatment shall be treated as a sale within the meaning of this section for the purpose of determining market value, and in such event a rate or charge for sampling, assaying, milling, smelting or refining the leased substances therefrom shall be deducted, which shall not exceed an amount to be determined by applying the same rates as are applied by such mill, smelter, or reduction works or competing works on ores of substantially like characteristics and like quantities received from independent sources. In the event of controversy, the Lessor shall have the power to determine such rates and charges. Transportation charges may also be deducted as provided in subdivision (i) hereof.

(iii) If a mill or other reduction works is operated exclusively in connection with a mine, such mill or reduction works shall be treated as a part of the mine, and the costs of operating the mill or reduction works shall, for the purpose of fixing the royalty set forth in this lease, be regarded as part of the costs of mining, and the proportionate cost of assaying, sampling, smelting, refining, and transportation only shall be deducted as herein provided.

(e) Time of Payment - All royalty on production during any calendar month shall be due and payable by Lessee to Lessor not later than the last day of the calendar month following that in which produced.

(f) Lessor agrees that upon request by the Lessee and after notice and hearing, upon good cause shown, the annual rental and/or the royalty rates specified in this lease may be reduced at the discretion of Lessor. However, upon the reduction of said rates, Lessor reserves the right to and Lessee agrees to reduce all outstanding overriding royalty interest proportionately.

Lessor may at its option take its royalty gas in kind at the well heads, provided expressly that Lessee shall be under no obligation to furnish any storage facilities for royalty gas.

Section 5. RIGHTS RESERVED TO LESSOR - The Lessor expressly reserves:

(a) Easements and Rights of Way - The right to permit for joint or several use in a manner which will not unreasonably interfere with Lessee's operations hereunder, such easements or rights of way upon, through or in the land hereby leased as may be necessary or appropriate to the workings of other lands belonging to the Lessor containing mineral deposits or to the working of the land hereby leased for other than the hereby leased substances, and for other public purposes.

(b) Surface Disposition - Leasing for Other Deposits - The right to use, lease, sell, or otherwise dispose of the surface of said hereby leased lands, or any part thereof, under existing state laws, subject to the rights herein granted and insofar as in the judgment of the Lessor, said surface is not necessary for the use of the Lessee in the exercise of the rights granted Lessee hereunder; and also the right to lease mineral deposits, other than the hereby leased substances, which may be contained in said hereby leased lands.

(c) Unitization - The right, with the consent of the Lessee, to commit the hereby leased lands to a unit or co-operative plan of development and to establish, alter or change the drilling, producing and royalty requirements and term of this lease to conform thereunto.

(d) Production Control - The right to alter or modify the quantity and rate of production to the end that waste may be eliminated or that production may conform to the Lessee's fair share of allowable production under any system of state or national curtailment and proration authorized by law.

Section 6. DRILLING AND DEVELOPMENT PROVISIONS PERTAINING TO OIL AND GAS OPERATIONS

(a) Offset Wells - Subject to the rights of surrender as provided in this lease, Lessee shall protect the oil and gas under the leased premises from drainage from adjacent lands or leases, and the Lessor expressly reserves the right to require the commencement, completion, and operation of a well or wells necessary for the protection of the leased premises from adjacent lands or leases.

(b) Diligence - Proper Operations - Lessee agrees:

(1) After discovery and subject to the right of surrender herein provided, to exercise reasonable diligence in producing oil and gas and in the drilling and operating of wells on the land covered hereby, unless consent to suspend operations temporarily is granted by the Lessor; and

(2) To carry on all operations hereunder in a good workmanlike manner in accordance with approved methods and practices, having due regard for the prevention of waste of oil and gas, or the entrance of water to the oil or gas bearing sands or strata, to the destruction or injury of such deposits, to the preservation and conservation of the property for future productive operations, and to the health and safety of workmen and employees; and

(3) To take every reasonable precaution to prevent water from migrating from one stratum to any other and to protect any water-bearing stratum from contamination; and

(4) To securely and properly plug in an approved manner any well before abandoning it and

(5) To drill any well in conformity with law and with the rules and regulations of the Utah Board of Oil, Gas, and Mining; and

(6) To conduct all operations subject to the inspection of the Lessor and to carry out at the Lessee's expense all reasonable orders and requirements of the Lessor relative to the prevention of waste and preservation of the property, and the health and safety of workmen; and on failure of the Lessee so to do, the Lessor shall have the right, together with other recourse herein provided, to enter on the property to repair damages or prevent waste at the Lessee's expense; and

(7) To conduct all operations under this lease in accordance with the Lessor's rules and regulations governing exploration for and production of oil and gas which are now in force, and with such reasonable rules and regulations as hereafter may be adopted by the Lessor; and

(8) To reimburse the owner or Lessee of the surface of the leased premises for actual damages thereto and injury to improvements thereon resulting from Lessee's operations hereunder, provided that Lessee shall not be held responsible for acts of providence or occurrences beyond Lessee's control.

(9) Whenever operations for the drilling for oil and gas are planned on Lessor's lands, no special notice need be filed so long as the required notices are filed with the Division of Oil, Gas, and Mining. When a drill site is located on Lessor's lands, any topsoil which is removed will be stockpiled on the site and will be redistributed on the site at the completion of operations and the land reseeded with grasses and/or native plants by Lessee or operator as prescribed by Lessor. All mud pits will be filled and material and debris will be removed from the site at the completion of operations.

Section 7. BOND - Lessee agrees at the time of commencement of operations to furnish a bond with an approved corporate surety company authorized to transact business in the State of Utah, or such other surety as may be acceptable to the Lessor, in the penal sum of not more than Five Thousand Dollars (\$5,000.00) conditioned upon the payment of all moneys, rentals, and royalties accruing to the Lessor under their terms hereof, and upon the full compliance with all other terms and conditions of this lease and the Rules and Regulations relating hereto, and also conditioned on the payment of all damages to the surface and improvements thereon where the lease covers lands, the surface of which has been sold or otherwise leased. Such bond or bonds furnished prior to the development of the lands contained in this lease may be increased in such reasonable amounts as the Lessor may decide after discovery of said substances.

The Lessor may waive the provisions of this section, as to this lease, upon the furnishing of a blanket bond by Lessee extending to and including Lessee's operations hereunder.

Section 8. LOGS - REPORTS - MAPS - Lessee agrees to keep a log, in a form approved by the Board of Oil, Gas and Mining, of each well drilled by Lessee on the leased lands and agrees to file the same, together with such reports, maps and supplements as may be required, with said Commission. Lessee also agrees to furnish Lessor copies of such logs, reports and any other information which Lessor may request from time to time.

Section 9. NOTICE OF WATER ENCOUNTERED - In the drilling of wells under authority of this lease, all water-bearing strata shall be noted in the log and Lessee shall promptly give notice to Lessor when water has been encountered and such notice shall include an estimate of the possible amount of flow of said water and whether or not the water is fresh water.

Section 10. DEFAULT OF LESSEE - Upon failure or default of the Lessee to comply with any of the conditions or covenants herein, the Lessor may cancel this lease and such cancellation shall extend to and include all rights granted hereunder as to the whole of the tract hereinabove described, but shall not extend to nor affect the rights of this Lessee under other leases or partial assignments of this lease which have been approved by Lessor upon which no default has been made, provided, however, that in the event of any default by Lessee, Lessor shall, before cancellation, send a notice of intention to cancel said lease to the Lessee by registered or certified return receipt mail addressed to the post office address of said Lessee as first hereinabove stated or as shown by the records of the Lessor, which notice shall specify the default for which cancellation is to be made, and, if within thirty (30) days from the date of mailing said notice, Lessee has not remedied the violation or rectified the condition specified and notified Lessor thereof in writing, Lessor may thereupon cancel the lease without further notice to Lessee.

Section 11. OPERATION REQUIREMENTS - PREVENTION OF WASTE - Lessee covenants that no waste shall be committed on the land and agrees to develop and produce said substances which are susceptible of production with reasonable care and skill and in conformity with all applicable laws of the United States and the State of Utah, and the rules and regulations of the Division of State Lands now in effect or hereafter promulgated, and to carry on all mining, extractions, reducing, refining, and other operations on or below the surface of the earth by safe and economically feasible methods and practices and to take all proper and reasonable steps and precautions to prevent waste of or damages to said substances or other mineral deposits on said land. Should Lessee elect to dump waste products upon the leased lands, Lessee shall secure Lessor's consent as to the situs and manner of maintenance of the waste dump; it being understood that Lessor contemplates designating the manner of operation and maintenance of a waste dump so that the land used for dumping of waste will be suitable for other uses. Lessee shall not fence any watering place upon the leased lands without prior approval of Lessor, nor shall Lessee permit or contribute to the pollution of waters useful for domestic or agricultural purposes.

In those instances where strip or open-pit mining operations or other operations which will disturb the surface of Lessor's lands are utilized, Lessor may require rehabilitation of the surface of the disturbed area. At least 30 days prior to commencement, Lessee will submit to Lessor plans for such operations. Lessor will at the time outline the rehabilitation program required by Lessor for the particular property in question. In all cases the Lessee must agree to slope the side of all excavations to a ratio of not more than one foot (1') vertically for each two feet (2') of horizontal distance unless otherwise approved by the Lessor prior to commencement of operations. Such sloping is to become a normal part of the operation of the leased premises so as to keep pace with such operation to the extent that such operation shall not at any time constitute a hazard. Whenever practicable, all pits or excavations shall be shaped to drain, and in no case shall the pits or excavations be allowed to become a hazard to persons or livestock. All material mined, but not removed from the premises, is to be used to fill the pits and leveled, unless consent of the Lessor to do otherwise is obtained so that at the termination of the lease the land will as nearly as practicable approximate its original configuration. The Lessee or operator must strike off the peaks and ridges of spoil banks to a width satisfactory to the Board, Lessor may require that all topsoil in the affected area shall be removed and stockpiled until the completion of operations when in its opinion such action is justified. Upon completion of operations, the stockpiled topsoil will be redistributed on the affected area, and the land reseeded with grasses and/or native plants by Lessee as prescribed by Lessor.

Section 12. MAPS AND REPORTS - Where Lessee conducts mining operations under this lease, Lessee agrees to keep clear, accurate and detailed maps on tracing cloth, on a scale of not more than fifty (50) feet to the inch, of Lessee's working in each section of leased lands, oriented to a public land corner so that the maps can be readily and correctly superimposed, and to furnish to the Lessor annually, or upon demand, certified copies of such maps and any written reports of operations as Lessor may call for.

Section 13. IMPROVEMENTS AND REMOVAL OF SAME - Upon termination of this lease for any cause, the Lessee, upon payment of all amounts due Lessor, shall remove from the leased premises all property (including fixtures), machinery, equipment, and supplies. The leased land shall be surrendered in good usable condition in as near the natural condition of the land as is reasonably practical.

Section 14. LESSOR'S RIGHT OF ACCESS TO LEASED PREMISES AND LESSEE'S RECORDS - Lessor, its officers and agents, shall have the right at all reasonable times to go in and upon the leased lands and premises during the term of the lease to inspect the work done thereon and the progress thereof, and the products obtained therefrom, and to post any notice on the said lands that it may deem fit and proper. Lessee shall permit any authorized representative of the Lessor to examine all books and records pertaining to operations and royalties payable to Lessor under the lease, and to make copies of and extracts from such books and records if desired.

Section 15. SURRENDER BY LESSEE - Lessee may surrender this lease for cancellation by Lessor as to all or any part of the leased lands, but not less than a quarter-quarter section or surveyed lot, upon payment of all rentals, royalties, and other amounts due Lessor and by filing with the Lessor a written relinquishment. The relinquishment shall be effective as to future rental liability on the date of cancellation by Lessor.

Section 16. WATER RIGHTS - If the Lessor shall initiate or establish any water right upon the leased premises, such right shall become an appurtenance of the leased premises, and, upon the termination of the lease, shall become the property of the Lessor.

Section 17. DISCOVERY OF OTHER MINERALS - Upon such notification of the Lessee to the Lessor, the Lessee shall have 60 days in which to request that the Lessor issue a lease on the newly discovered mineral substances in line with the form of lease and regular rules and regulations of the Division of State lands regarding such mineral substances.

Section 18. FAILURE OF LESSOR'S TITLE - It is understood and agreed that this lease is issued only under such title as the State of Utah may now have or hereafter acquire, and that the Lessor shall not be liable for any damages sustained by the Lessee, nor shall the Lessee be entitled to or claim any refund of rentals or royalties theretofore paid to the Lessor in the event the Lessor does not have the title to the minerals in the leased lands. If Lessor owns a less interest in the leased lands than the entire and undivided fee simple estate in the leased minerals for which rental and royalty is payable, then the rentals and royalties herein provided shall be paid the Lessor only in the proportion which its interest bears to said whole and undivided fee simple estate in the said minerals for which royalty is payable.

Section 19. TRANSFERS OF INTEREST BY LESSEE - Lessor will not permit any assignment of this lease, or of any interest therein, or any sublease or operating agreement as to the leased lands, or any portion thereof, unless and until such assignment, transfer, sublease or operating agreement is approved by the Lessor. Any such instrument shall be filed with Lessor within ninety days from the date of final execution thereof, and when and provided it is approved by the Lessor, shall take effect as of the date of its execution. Subject to the necessity of approval as herein set out, all of the terms, covenants, conditions, and obligations of this lease shall extend to and shall be binding upon the successor in interest of the Lessee. The Lessee further agrees not to enter into any agreements limiting, restricting, prorating, or otherwise affecting the natural production from said lands in any way or in any event without the consent in writing of the Lessor first had and obtained.

Section 20. NOTICES - All notices herein provided to be given or which may be given by either party to the other, except as otherwise provided by law, shall be deemed to have been fully given when made in writing and deposited in the United States mail, postage prepaid, and addressed to the last known address of the parties.

Section 21. CONSENT TO SUIT - Lessee consents to suit in the courts of the State of Utah in any dispute arising under the terms of this lease or as a result of operations carried on under this lease. Service of process in any such action is hereby agreed to be sufficient if sent by registered mail to the Lessee at the last known address appearing on Lessor's records.

Section 22. ATTORNEY'S FEES - In the event Lessor shall institute and prevail in any action or suit for the enforcement of any provisions of this lease, Lessee will pay to Lessor a reasonable attorney's fee on account thereof.

IN WITNESS WHEREOF, the parties have hereunto subscribed their names the day and year first above written.

STATE OF UTAH  
DIVISION OF STATE LANDS

By Charles R. Hansen  
Director LESSOR

Neva H. Henderson

\_\_\_\_\_

\_\_\_\_\_

LESSEE



STATE OF UTAH )  
COUNTY OF SALT LAKE ) ss.

On the 30th day of June, 19 75, personally appeared before me CHARLES R. HANSEN, who being by me duly sworn did say that he is the Director of the Division of State Lands of the State of Utah, and said instrument was signed in behalf of the State of Utah by authority of a resolution of the State Land Board and said CHARLES R. HANSEN acknowledged to me that the State of Utah executed the same.

Given under my hand and seal this 30th day of June, 19 78.

Dennis D. Dahlberg  
Notary Public, residing at: SLE, ut.

My Commission expires: 11-25-81

STATE OF UTAH )  
COUNTY OF Salt Lake ) ss.

On the 19th day of June, 19 78, personally appeared before me Neva H. Henderson, the signer of the above instrument, who duly acknowledged to me that she executed the same.

Given under my hand and seal this 19th day of June, 19 78.

Rene Petersen  
Notary Public, residing at:  
Salt Lake City, Utah

My Commission expires: July 1, 1981

STATE OF UTAH )  
COUNTY OF ) ss.

On the \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, personally appeared before me \_\_\_\_\_, who being duly sworn did say that he is an officer of \_\_\_\_\_ and that said instrument was signed in behalf of said corporation by resolution of its Board of Directors, and said \_\_\_\_\_ acknowledged to me that said corporation executed the same.

Given under my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_.

\_\_\_\_\_  
Notary Public, residing at:

My Commission Expires:

Harper Oil Co.  
State 6-36  
Sec. 36, T37S, R24E  
San Juan Co.

John Dolezal  
(303) 825-4771

TD = 5560      9 5/8" @ 1806'

Water flow @ 2820'  
                                 3200'

Upper Ism 5186  
Hermosa 4175

Lower Ismay 5369  
Desert Creek 5446

① 5400 - 5550'

② 5086 - 5186'

③ 3151' - 3250'

④ 2800' - 2900'

⑤ 1750 - 1850'

⑥ 10-15 sx surf. plug

⑦ P & A marker



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 4, 1985

Harper Oil Company  
P.O. Box 5928 TA  
Denver, Colorado 80217

Gentlemen:

RE: State 6-36, Sec.36, T.37S, R.24E, San Juan County, Utah.

A recent field inspection was conducted on the above captioned well by a representative of the Division of Oil, Gas and Mining on February 25, 1985. The inspection raised some concerns of pit integrity and proper reporting of well activity.

It was observed at the time of the inspection that the reserve pit had been constructed in an area very near the Montezuma Creek in San Juan County. The inspection revealed that the pit had been constructed in the flood plain of the creek and was not closely underlain by a tight and compact soil. It was also noted that the well had been spudded and no record of a well spud has been provided to the Division as required by rules and regulations.

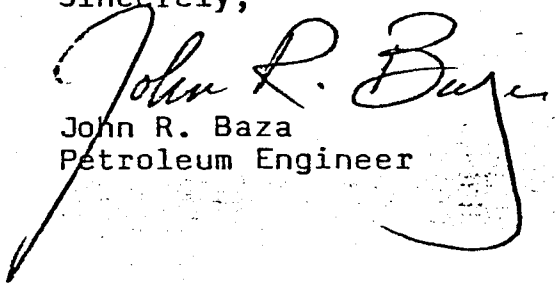
Because the well has been spudded and liquids have already entered the reserve pit, we feel that no action can now be taken to line the pit to prevent percolation of the drilling fluids into the ground water system; however, the situation will be closely monitored. If it appears that leakage from the reserve pit is occurring, the Division may require some remedial action such as temporary containment vessels for the mud system in order to alleviate the problem.

Whenever a well has been spudded, it is imperative that the operator notify the Division as stipulated on the initial approval of the APD for the well. Additional well activity should also be reported as required by the General Rules and Regulations.

Page 2  
Harper Oil Company  
March 6, 1985

Thank you for your immediate and prompt attention to this matter. Please contact the Division if any additional information is required.

Sincerely,

  
John R. Baza  
Petroleum Engineer

cc: R.J. Firth  
Well File  
0090T

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Or instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. ML-35744
2. NAME OF OPERATOR Harper Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 5928 T. A., Denver, CO 80217		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1801' FNL & 2344' FWL (NW/4)		8. FARM OR LEASE NAME State
14. PERMIT NO.		9. WELL NO. 6-36
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT Undesignated
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 36 T37S R24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

MAR 15 1985

DIVISION OF OIL  
& MINING

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	<input checked="" type="checkbox"/>

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Harper Oil Company respectfully requests all information on this well be held confidential for a period of 6 months.

CONFIDENTIAL

18. I hereby certify that the foregoing is true and correct

SIGNED

John Dolezal

TITLE Drilling Specialist

DATE March 13, 1985

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

#6-36 STATE/S. BRADFORD N-21  
HARPER OIL COMPANY  
SE NW SEC. 36-T37S-R24E  
1801' FNL, 2344' FWL  
SAN JUAN COUNTY, UTAH  
5650' PTD DESERT CREEK & ISMAY

HARPER WI: 50% BPO, 30% APO  
HARPER NRI: 40% BPO, 25.4625% APO  
LEASE NO.: NOT ASSIGNED  
SPUD DATE:  
CONTRACTOR:  
AFE NO.: 20051-25

02-21-85 P.O.: BLDG LOCATION.  
02-22-85 P.O.: BLDG LOCATION.  
02-23-85 FINISH BLDG LOCATION.  
02-24-85 MIRU ARAPAHOE RIG #4

02-25-85 P.O.: DRLG 17-1/2" CONDUCTOR HOLE @ 40' (40').

17 HRS. RURT; 2 HRS. DRLG, SET RATHOLE AND MOUSE HOLE, DRL 17-1/2"  
CONDUCTOR HOLE. SPUD CONDUCTOR HOLE @ 5:00 A.M. 2-25-85.  
MW 8.7, VIS 45. BIT #1 MADE 40' IN 1 HR.  
NO COSTS AVAILABLE.

02-26-85 P.O.: DRLG @ 125' (37').

DRLG 17-1/2" HOLE TO 88'; CIRC; DROP SRVY, TOH; RU & RUN 13-3/8"  
CONDUCTOR PIPE; CMT; 12 HR WOC, CLEAN PITS; DRLG 40' CMT; DRLG  
12-1/4" HOLE. SRVYS: 1/4 DEG @ 88'. DRLG W/WTR. BIT #1 IN 0'  
MADE 88' IN 6 HR. BIT #2, 12-1/4, STC, F3 (12-13-13).

CSG DETAIL:

2 JT 13-3/8", 64#, J-55 (89.80') SA 88' KB

CMT DETAIL:

125 SX CLASS "B", 2% CC, 1/4# FLOCELE

PD @ 1445 02-25-85.

DWC: \$23,290

CWC: \$23,290

02-27-85 P.O.: TFB @ 1053' (928').

SRVY; TOH, 5 STDS, RIG REPAIR, TIH; 18 HR DRLG; TFB @ 1053'.  
SRVYS: 1/2 DEG @ 630', 1/2 DEG @ 1053'. DRLG W/WTR/POLYMER. BIT  
#2 MADE 965' IN 21 HR.

DWC: \$15,512

CWC: \$38,802

02-28-85 P.O.: DRLG @ 1750' (697').

TIH W/BIT; DRLG 12-1/4" HOLE; 19-3/4 HR DRLG. DRLG W/WTR. BIT  
#3, 12-1/4, STC, F2 (12-13-13).

DWC: \$10,415

CWC: \$49,217

03-01-85 P.O.: NU BOP'S @ 1806' (56').

2-1/2 HR DRLG - 12-1/4" HOLE TO 1806'; CIRC & COND; DROP SRVY, TOH,  
SLM OUT - NO CORRECTION; RU RUN 9-5/8" CSG; CIRC; CMT; 3-1/2 HR  
WOC; PMP 3 STAGES TO TOP OUT BACK SIDE; CUT OFF 13-3/8" CSG,  
9-5/8" CSG, WELD ON HEAD, PR TO 1500 PSI, NU. SRVYS: 1/2 DEG @  
1806'. MW 8.8, VIS 36. BIT #3 MADE 753' IN 23 HR.

#6-36 STATE/S. BRADFORD N-21  
HARPER OIL COMPANY  
SE NW SEC. 36-T37S-R24E  
1801' FNL, 2344' FWL  
SAN JUAN COUNTY, UTAH  
5650' PTD DESERT CREEK & ISMAY  
13-3/8" CSG SA 88' KB  
9-5/8" CSG SA 1806' KB

PAGE -2-

HARPER WI: 50% BPO, 30% APO  
HARPER NRI: 40% BPO, 25.4625% APO  
LEASE NO.: NOT ASSIGNED  
SPUD DATE: 02-25-85  
CONTRACTOR: ARAPAHOE RIG #4  
AFE NO.: 20051-25

TIGHT HOLE

03-01-85 CONTINUED

CSG DETAIL

42 JT 9-5/8", 36#, J-55, ST&C + SHOE (1811.45')  
LANDED @ 1806' KB. FLOAT @ 1767' KB. PMPD 10 BW AHEAD.

CMT DETAIL:

500 SX HALCO LITE, 2% CaCl, 1/4#/SX FLOCELE; TAIL IN W/  
200 SX CLASS "B", 2% CaCl, 1/4#/SX FLOCELE  
DISPL 136.5 BBL, HAD 129 BBL GONE, PR TO 2200 PSI. STOP DISPL,  
LEFT 92' CMT ON TOP OF FLOAT. STOP DISPL @ 1415 P.M. 02-28-85.  
NO CMT TO SURF. PMPD 50 SX CLASS "B", 2% CaCl, ON BACKSIDE, FILLED &  
FELL BACK 69'. PMPD 15 SX CLASS "B", 3% CaCl, FILLED BACKSIDE &  
FELL BACK 30'. PMPD 5 SX CLASS "B", 3% CaCl, FILLED BACKSIDE & HELD  
UP. JOB COMPLETE @ 2245 P.M. 02-28-85. HAD GUIDE SHOE,  
CENTRALIZER IN MIDDLE OF 1ST JT, FLOAT 1 JT OFF BTM, CENTRALIZER  
ON 2ND & 4TH COLLAR, BASKET 215' FROM TOP.  
DWC: \$38,290 CWC: \$87,487

03-02-85 P.O.: DRLG @ 2660' (854').

NU BOP'S & MANIFOLD; TST BLINDRAMS & MANIFOLD, 1800 PSI FOR 30  
MIN; PU 7 6-1/4" DC & TIH, TAG CMT @ 1675'; TST PIPE RAMS & HYDRIL  
TO 1800 PSI; 2-1/4 HR DRLG 131' CMT, FLOAT EQUIP; 16 HR DRLG.  
SRVYS: 1/2 DEG @ 2312'. DRLG W/WTR.  
DWC: \$13,035 CWC: \$100,522

03-03-85 P.O.: DRLG @ 3175' (515').

SRVY, DROP SRVY & TOH, LEFT 1 CONE, BEARING & ALL BUTTONS, PU JUNK  
BASKET; TOH W/BIT #5 & JUNK BASKET, REC 2/3 OF CONE & ALL BUTTONS  
& BEARINGS, TIH W/BIT #6 & JUNK BASKET; 15-3/4 HR DRLG. SRVYS:  
1-1/2 DEG @ 2808', 1-1/2 DEG @ 2902'. DRLG W/WTR. 1-2 UNITS  
BGG; 1-2 UNITS CG; 5 UNITS TG. 80% SH - MED DK GREY, ORANGE;  
10% SS - CLEAR TO FROSTY, FFG, SA, POORLY SORTED; 10% LS -  
CRYSTALLINE. BIT #4, 7-7/8, STC, F-2 (11-12-12) OUT @ 2902' MADE  
1096' IN 22-1/2 HR. BIT #5, 7-7/8, HTC, DWV (B-13-15) OUT @ 2995'  
MADE 93' IN 4 HR. BHA - BIT, JUNK BASKET, 19 6-1/4" DC - LENGTH  
574'.  
DWC: \$8,616 CWC: \$109,138

#6-36 STATE/S. BRADFORD N-21  
HARPER OIL COMPANY  
SE NW SEC. 36-T37S-R24E  
1801' FNL, 2344' FWL  
SAN JUAN COUNTY, UTAH  
5650' PTD DESERT CREEK & ISMAY  
13-3/8" CSG SA 88' KB  
9-5/8" CSG SA 1806' KB

PAGE -3-

HARPER WI: 50% BPO, 30% APO  
HARPER NRI: 40% BPO, 25.4625% APO  
LEASE NO.: NOT ASSIGNED  
SPUD DATE: 02-25-85  
CONTRACTOR: ARAPAHOE RIG #4  
AFE NO.: 20051-25

TIGHT HOLE

03-04-85 P.O.: DRLG @ 3875' (700').

23-1/4 HR DRLG. SRVYS: 3/4 DEG @ 3616'. DRLG W/WTR. MW 8.5.  
DWC: \$11,966 CWC: \$121,104

03-05-85 P.O.: DRLG @ 4440' (565').

21-1/4 HR DRLG. SRVYS: 3/4 DEG @ 4237'. DRLG W/WTR.  
DWC: \$9,301 CWC: \$130,405

03-06-85 P.O.: DRLG @ 4715' (198').

DROP SRVY, TFB @ 4517', REC REMAINDER OF CONE, BEARINGS & BUTTONS;  
CLEAN PITS, MIX MUD; TIH W/BIT #7, HIT BRIDGE @ 4361', WSH & RM  
156' TO BTM; 14-1/2 HR DRLG; @ 4715' DRLG W/20 BPH WTR. FLW W/SI  
PR @ 125 PSI, WTR FLW CUTTING MUD WT TO 8.5, MIX BAR. AT 9.3 PPG.  
WTR FLW STOPPED. FM: est TOP OF HARAKER TRAIL @ 4165'. SRVYS:  
1 DEG @ 4517'. MW 8.5, VIS 38, pH 10, WL 10.8, CL 11K PPM. BIT  
#6 MADE 1522' IN 52-1/2 HR. BIT #7, 7-7/8, STC, F3 (12-12-12).  
BHA - BIT JS, 19 6-1/4" DC, LENGTH - 574'.  
DWC: \$7,540 CWC: \$137,945

03-07-85 P.O.: DRLG @ 4990' (275').

23-1/4 HR DRLG. MW 9.5+, VIS 38, pH 11.5, WL 11.2, CL 15K PPM, CA  
40 PPM.  
DWC: \$11,342 CWC: \$149,287

03-08-85 P.O.: DRLG @ 5223' (233').

23-1/2 HR DRLG. TOP OF ISMAY @ 5168'. SRVYS: 1 DEG @ 5014'. MW  
9.6+, VIS 37, pH 11.5, WL 18, CL 21K PPM, CA 280 PPM.  
DWC: \$5,943 CWC: \$155,230



#6-36 STATE/S. BRADFORD N-21  
HARPER OIL COMPANY  
SE NW SEC. 36-T37S-R24E  
1801' FNL, 2344' FWL  
SAN JUAN COUNTY, UTAH  
5650' PTD DESERT CREEK & ISMAY  
13-3/8" CSG SA 88' KB  
9-5/8" CSG SA 1806' KB

PAGE -4-

HARPER WI: 50% BPO, 30% APO  
HARPER NRI: 40% BPO, 25.4625% APO  
LEASE NO.: NOT ASSIGNED  
SPUD DATE: 02-25-85  
CONTRACTOR: ARAPAHOE RIG #4  
AFE NO.: 20051-25

TIGHT HOLE

03-09-85 P.O.: DRLG @ 5424' (201').

23-3/4 HR DRLG. MW 10.2, VIS 46, pH 10.5, WL 8.8, CL 25K PPM. 70  
UNITS BGG. 125 UNITS CG. SLIGHT SHOW @ 5395'-5403'; BEFORE 35  
UNITS, DURING 236 UNITS, AFTER 20 UNITS.  
DWC: \$8,899 CWC: \$164,129

03-10-85 P.O.: TIH W/TST TOOLS FOR DST #1 @ 5498' (74').

7-3/4 HR DRLG; CIRC SAMPLES @ 5493'; 1 HR DRLG; CIRC & COND FOR  
DST #1; ST, 15 STDS, NO FILL; CIRC FOR DST #1; DROP SRVY, TOH, SLM  
OUT, NO CORRECTION; PU TST TOOLS; TIH W/TOOLS. SRVYS: 1/4 DEG @  
5498'. MW 10.2, VIS 43, pH 10, WL 8.4, CL 25K PPM, CA 640 PPM.  
BIT #7 OUT @ 4598' MADE 981' IN 85-3/4 HR.  
DWC: \$7,028 CWC: \$171,157

03-11-85 P.O.: CIRC, PREP TO LOG @ 5559' (61').

TIH W/TST TOOLS; RUN DST #1; TOH W/TST TOOLS; BRKDN & LOAD OUT  
TOOLS; TIH W/BIT #8; DRLG; CIRC SAMPLES @ 5514'; DRLG, TD @ 9:15  
P.M. 03-10-85; CIRC & CHECK CL; ST, 15 STDS - NO FILL; CIRC WO  
SCHLUMBERGER, PREP TO LOG. MW 10.3, VIS 43, pH 10, WL 8, CL 31K  
PPM.

DST #1 DESERT CREEK 5480-98'  
10 MIN OPEN W/FAIR BLW 6", VERY WEAK IN 8 MIN - 1/2" IN BUCKET  
FSI 30", DEAD IN 4 MIN  
2ND FLW OPEN W/STRONG BLW TO BTM OF BUCKET - STEADILY DECRG.  
10-30-60-120 BTM CH 3/4"; TOP CH 1/8"  
TOP @ 5462' BTM @ 5498'  
IH 2912 IH 2935  
FH 2912 FH 2935  
IF 13-27 IF 26-26  
FF 13-27 FF 26-40  
ISI 216 ISI 214  
FSI 888 FSI 913

SI PR STILL BUILDING

REC 15' GCM RW .44 @ 64 DEG F CL 10,714 PPM  
SAMPLE CHAMBER REC 700 CC GCM @ 10 PSI, BHT 128 DEG F  
PIT RW 2.6 @ 57 DEG F, CL 16.96 PPM  
SAMPLE 64 @ 64 DEG F, CL 9090 PPM  
DWC: \$9,618 CWC: \$187,775

RECEIVED

*Confidential*

MAR 21 1985

#6-36 STATE/S. BRADFORD N-21  
HARPER OIL COMPANY DIVISION OF OIL  
SE NW SEC. 36-T37S-R2E GAS & MINING  
1801' FNL, 2344' FWL  
SAN JUAN COUNTY, UTAH  
5650' PTD DESERT CREEK & ISMAY  
13-3/8" CSG SA 88' KB  
9-5/8" CSG SA 1806' KB

PAGE -5-

HARPER WI: 50% BPO, 30% APO  
HARPER NRI: 40% BPO, 25.4625% APO  
LEASE NO.: NOT ASSIGNED  
SPUD DATE: 02-25-85  
CONTRACTOR: ARAPAHOE RIG #4  
AFE NO.: 20051-25

TIGHT HOLE

03-12-85 P.O.: CIRC & WO HIGH WTR TO DROP. TD @ 5559' (0').

CIRC & WO WTR; TOH INTO SURF PIPE; CIRC; TIH TO BTM, 5' FILL; CIRC  
& WO WTR. MW 10.0, VIS 38, pH 10, WL 7.6, CL 39K PPM.  
DWC: \$7,275 CWC: \$188,050

03-13-85 P.O.: WO HIGH WTR LEVEL @ 5559' (0').

CIRC; TOH; SET ON BANK, WO WTR, ROAD & FUEL. CREEK DN APPROX 2';  
ANTICIPATE ROCK CROSSING FINISHED THIS P.M.  
DWC: \$6,110 CWC: \$194,160

03-14-85 P.O.: LOGGING @ 5559' (0').

WO ROAD CROSSING; TIH, BRK CIRC 1/2 WAY IN, 3' FILL, CIRC & COND  
FOR LOGS; TOH; RU LOGGERS, RUN TOOLS IN HOLE, TAG BTM @ 5560',  
TOOLS FAILED. TOH, WORK ON TOOLS, TIH.  
LOG #1 DIL/FSL/GR/CAL - SURF - TD  
LOG #2 LITHO-DENSITY - 4000' - TD  
LOG #3 BHC/SONIC - SURF - TD  
LOG #4 DIPMETER - 5050' - TD  
LOGS SHOULD BE IN FARMINGTON APPROX 11:00 A.M. TODAY.  
DWC: \$6,639 CWC: \$200,799

03-15-85 P.O.: PLUGGING OPERATIONS.

FINISH LOGGING, RD SAME; WOO; TIH W/DC, LD; TIH OPEN-ENDED, PU DC;  
CIRC & WO HALLIBURTON.

CMT DETAIL:

PLUG #1 5560-5410' W/55 SX CLASS "B"  
PLUG #2 5186-5086' W/40 SX CLASS "B"  
PLUG #3 3250-3150' W/50 SX CLASS "B"  
PLUG #4 2900-2800' W/50 SX CLASS "B"  
DWC: \$5,760 CWC: \$206,559

03-16-85 P.O.: P&A.

FINAL CMT DETAIL:

PLUG #5 1850-1750' W/40 SX CLASS "B"  
CLEAN PIT & DRAIN PMP. PLUG TOP W/15 SX CMT  
RIG REL @ 4:00 P.M. 03-16-85. PU WTR LINES & PMPS. REL RENTAL  
EQUIP. PUT UP DRY HOLE MARKER & FENCE RESERVE PIT. RIG OFF  
LOCATION 03-16-85. FINAL REPORT.  
DWC: \$11,645 CWC: \$218,204

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUB IN TRIPLICATE\*  
(Other instructions on  
reverse side)

2

### SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1. OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> XXXX <b>2. NAME OF OPERATOR</b> Harper Oil Company <b>3. ADDRESS OF OPERATOR</b> 1625 Broadway Suite 1200, Denver, CO 80202 <b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  1801' FNL & 2344' FWL (NW/4)  <b>14. PERMIT NO.</b>  <b>15. ELEVATIONS</b> (Show whether OF, RT, GR, etc.) 4934 G.L.		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> ML-35744 <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> N/A <b>7. UNIT AGREEMENT NAME</b> N/A <b>8. FARM OR LEASE NAME</b> State <b>9. WELL NO.</b> 6-36 <b>10. FIELD AND POOL, OR WILDCAT</b> Undesignated <b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> Sec 36-T375S-R24E <b>12. COUNTY OR PARISH</b> San Juan <b>13. STATE</b> Utah
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Harper Oil Company intends to plug and abandon this well per approved plugging orders of John R. Baza, of the State of Utah Board of Oil, Gas and Mining. The following cement plugs will be set;

Depth	Formation
5410' - 5560'	Desert Creek
5086' - 5186'	Ismay
3150' - 3250'	Water Flow @ 3200'
2800' - 2900'	Water Flow @ 2820'
1750' - 1850'	Base of Surface Pipe @ 1800'

Dump 15sx ontop, install dryhole marker, plug rathole and mousehole.  
Pat DeGruyter will be contacted.

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**  
 DATE: 3/29/85  
 BY: John R. Baza

18. I hereby certify that the foregoing is true and correct

SIGNED John Dolezal TITLE Drilling Specialist DATE March 26, 1985

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(See instructions on  
reverse side)

# CONFIDENTIAL

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER P&A		5. LEASE DESIGNATION AND SERIAL NO. ML-35744
2. NAME OF OPERATOR Harper Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 5928 T.A., Denver, CO 80211		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1801' FNL & 2344' FWL (NW/4)		8. FARM OR LEASE NAME State
14. PERMIT NO. API #43-047-31136		9. WELL NO. 6-36
15. ELEVATIONS (Show whether DF, RT, OR, etc.)		10. FIELD AND POOL, OR WILDCAT Undesignated
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 36-37S-24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <input type="checkbox"/>	XXX <input type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Surface restoration of this wellsite will begin the first half of July, 1985.  
Restoration will meet surface owner's specifications.

After work is complete, a subsequent report will be filed for State approval and bond release.

18. I hereby certify that the foregoing is true and correct

SIGNED John Dolezal TITLE Drilling Specialist DATE June 11, 1985

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMITTED IN TRIPLICATE\*  
(Other instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED  
SEP 26 1985

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER DRY HOLE		5. LEASE DESIGNATION AND SERIAL NO. ML-35744
2. NAME OF OPERATOR Harper Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P.O. Box 5928, T.A.; Denver, CO 80217		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1801' FNL & 2344' FWL (NW/4)		8. FARM OR LEASE NAME STATE
14. PERMIT NO. 43-037-31136		9. WELL NO. 6-36
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4934' GL		10. FIELD AND POOL, OR WILDCAT Undesignated
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 36- T37S- R24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

The surface location has been restored to the satisfaction of the surface owner.  
Dry hole marker is in place.

Please release this well from bond.

18. I hereby certify that the foregoing is true and correct

SIGNED

JOHN DOLEZAL

TITLE Drilling Analyst

DATE September 24, 1985

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 7, 1985

Harper Oil Company  
P.O. Box 5928 TA  
Denver, Colorado 80217

Gentlemen:

Re: Well No. State 6-36 - Sec. 36, T. 37S., R. 24E.,  
San Juan County, Utah - API #43-037-31136

This letter is to advise you that the "Well Completion or Recompletion Report and Log" for the above referenced well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, and forward it to this office as soon as possible, but not later than October 18, 1985.

Sincerely,

Pam Kenna  
Well Records Specialist

Enclosure

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File

0170S/47

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other **RECEIVED**  
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

Harper Oil Company

3. ADDRESS OF OPERATOR

Post Office Box 5928, T.A.; Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

1801' FNL and 2344' FWL (NW/4)

At top prod. interval reported below

At total depth

14. PERMIT NO.

43-037-31136

DATE ISSUED

01-28-85

15. DATE SPUNDED

02-25-85

16. DATE T.D. REACHED

03-10-85

17. DATE COMPL. (Ready to prod.)

N/A 3-16-85

18. ELEVATIONS (DF, BBL, RT, GR, ETC.)\*

4934' GL

19. ELEV. CASINGHEAD

N/A

20. TOTAL DEPTH, MD &amp; TVD

5559'

21. PLUG. BACK T.D., MD &amp; TVD

GL

22. IF MULTIPLE COMPL.,

HOW MANY\*

N/A

23. INTERVALS

DRILLED BY

ROTARY TOOLS

All

CABLE TOOLS

None

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

N/A

25. WAS DIRECTIONAL

SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL/SEL/Litho-Dens/BHC Sonic/ Dipmeter/GR/Cal

27. WAS WELL CORDED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	1806'	12-1/4	700 sx, 70 sx top out	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					N/A		

31. PERFORATION RECORD (Interval, size and number)

N/A

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
N/A	

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
N/A						PJA	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				X3.29-85 per gal
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORE)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

N/A

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

John Dolezal  
Drilling Analyst

DATE October 15, 1985

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State agency. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			DST #1 5480-98' 10 min/30 min/60 min/120 min IH 2912 IF 13-27 ISI 216 FF 13-27 FSI 888 FH 2912  Recovered 15' GCM
			NAME  Honaker Trail Paradox Ismay L. Ismay Desert Creek
			MEAS. DEPTH  4283' 4857' 5227' 5387' 5492'
			TOP  TRUE VERT. DEPTH